

## Sum of the Prime Factors

In this section, we will make some determinations by separating the index of Qur'ān into prime factors. What do prime factors of a number mean?

Non-prime numbers can be separated into multipliers by using the appropriate prime numbers among the preceding. Let us explain it with a few examples:



Example:

Let us consider the number 6

Prime factors of this number:  $6 = 2 * 3$

Let us consider the number 8

Prime factors of this number:  $8 = 2 * 2 * 2$

Let us consider the number 75

Prime factors of this number:  $75 = 3 * 5 * 5$

Let us consider the number 100

Prime factors of this number:  $100 = 2 * 2 * 5 * 5$

In separation of factors, if exponential notation is used for the repeated multipliers,

$$8 = 2^3$$

$$75 = 3 * 5^2$$

$$100 = 2^2 * 5^2$$

Then the acquired notation is called as separating such number into prime factors, and the transaction is called the separation into prime factors (the **integer prime-factorization**).

n, being a positive integer, the sum of the prime factors is shown as  $a_0(n)$ .

According to this, the sum of the prime factors of 100 :

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$$a_0(100) = 2 + 2 + 5 + 5$$

$$a_0(100) = 14$$

The largest number in the index of Holy Qur'ān is 286. In the following list, prime factors of the numbers 1 thru 286 and their sums are given:

$n$	Prime Factors	$a_0(n)$
<u>1</u>	<b>1</b>	1
<u>2</u>	<b>2</b>	2
<u>3</u>	<b>3</b>	3
<u>4</u>	$2^2$	4
<u>5</u>	<b>5</b>	5
<u>6</u>	$2 \cdot 3$	5
<u>7</u>	<b>7</b>	7
<u>8</u>	$2^3$	6
<u>9</u>	$3^2$	6
<u>10</u>	$2 \cdot 5$	7
<u>11</u>	<b>11</b>	11
<u>12</u>	$2^2 \cdot 3$	7
<u>13</u>	<b>13</b>	13
<u>14</u>	$2 \cdot 7$	9
<u>15</u>	$3 \cdot 5$	8
<u>16</u>	$2^4$	8
<u>17</u>	<b>17</b>	17
<u>18</u>	$2 \cdot 3^2$	8
<u>19</u>	<b>19</b>	19
<u>20</u>	$2^2 \cdot 5$	9
<u>21</u>	$3 \cdot 7$	10
<u>22</u>	$2 \cdot 11$	13
<u>23</u>	<b>23</b>	23
<u>24</u>	$2^3 \cdot 3$	9
<u>25</u>	$5^2$	10

$n$	Prime Factors	$a_0(n)$
<u>144</u>	$2^4 \cdot 3^2$	14
<u>145</u>	$5 \cdot 29$	34
<u>146</u>	$2 \cdot 73$	75
<u>147</u>	$3 \cdot 7^2$	17
<u>148</u>	$2^2 \cdot 37$	41
<u>149</u>	<b>149</b>	149
<u>150</u>	$2 \cdot 3 \cdot 5^2$	15
<u>151</u>	<b>151</b>	151
<u>152</u>	$2^3 \cdot 19$	25
<u>153</u>	$3^2 \cdot 17$	23
<u>154</u>	$2 \cdot 7 \cdot 11$	20
<u>155</u>	$5 \cdot 31$	36
<u>156</u>	$2^2 \cdot 3 \cdot 13$	20
<u>157</u>	<b>157</b>	157
<u>158</u>	$2 \cdot 79$	81
<u>159</u>	$3 \cdot 53$	56
<u>160</u>	$2^5 \cdot 5$	15
<u>161</u>	$7 \cdot 23$	30
<u>162</u>	$2 \cdot 3^4$	14
<u>163</u>	<b>163</b>	163
<u>164</u>	$2^2 \cdot 41$	45
<u>165</u>	$3 \cdot 5 \cdot 11$	19
<u>166</u>	$2 \cdot 83$	85
<u>167</u>	<b>167</b>	167
<u>168</u>	$2^3 \cdot 3 \cdot 7$	16

<u>26</u>	$2 \cdot 13$	15
<u>27</u>	33	9
<u>28</u>	$2^2 \cdot 7$	11
<u>29</u>	<b>29</b>	29
<u>30</u>	$2 \cdot 3 \cdot 5$	10
<u>31</u>	<b>31</b>	31
<u>32</u>	$2^5$	10
<u>33</u>	$3 \cdot 11$	14
<u>34</u>	$2 \cdot 17$	19
<u>35</u>	$5 \cdot 7$	12
<u>36</u>	$2^2 \cdot 3^2$	10
<u>37</u>	<b>37</b>	37
<u>38</u>	$2 \cdot 19$	21
<u>39</u>	$3 \cdot 13$	16
<u>40</u>	$2^3 \cdot 5$	11
<u>41</u>	<b>41</b>	41
<u>42</u>	$2 \cdot 3 \cdot 7$	12
<u>43</u>	<b>43</b>	43
<u>44</u>	$2^2 \cdot 11$	15
<u>45</u>	$3^2 \cdot 5$	11
<u>46</u>	$2 \cdot 23$	25
<u>47</u>	<b>47</b>	47
<u>48</u>	$2^4 \cdot 3$	11
<u>49</u>	$7^2$	14
<u>50</u>	$2 \cdot 5^2$	12
<u>51</u>	$3 \cdot 17$	20
<u>52</u>	$2^2 \cdot 13$	17
<u>53</u>	<b>53</b>	53
<u>54</u>	$2 \cdot 3^3$	11
<u>55</u>	$5 \cdot 11$	16
<u>56</u>	$2^3 \cdot 7$	13
<u>57</u>	$3 \cdot 19$	22
<u>58</u>	$2 \cdot 29$	31
<u>59</u>	<b>59</b>	59

<u>169</u>	132	26
<u>170</u>	$2 \cdot 5 \cdot 17$	24
<u>171</u>	$3^2 \cdot 19$	25
<u>172</u>	$2^2 \cdot 43$	47
<u>173</u>	<b>173</b>	173
<u>174</u>	$2 \cdot 3 \cdot 29$	34
<u>175</u>	$5^2 \cdot 7$	17
<u>176</u>	$2^4 \cdot 11$	19
<u>177</u>	$3 \cdot 59$	62
<u>178</u>	$2 \cdot 89$	91
<u>179</u>	<b>179</b>	179
<u>180</u>	$2^2 \cdot 3^2 \cdot 5$	15
<u>181</u>	<b>181</b>	181
<u>182</u>	$2 \cdot 7 \cdot 13$	22
<u>183</u>	$3 \cdot 61$	64
<u>184</u>	$2^3 \cdot 23$	29
<u>185</u>	$5 \cdot 37$	42
<u>186</u>	$2 \cdot 3 \cdot 31$	36
<u>187</u>	$11 \cdot 17$	28
<u>188</u>	$2^2 \cdot 47$	51
<u>189</u>	$3^3 \cdot 7$	16
<u>190</u>	$2 \cdot 5 \cdot 19$	26
<u>191</u>	<b>191</b>	191
<u>192</u>	$2^6 \cdot 3$	15
<u>193</u>	<b>193</b>	193
<u>194</u>	$2 \cdot 97$	99
<u>195</u>	$3 \cdot 5 \cdot 13$	21
<u>196</u>	$2^2 \cdot 7^2$	18
<u>197</u>	<b>197</b>	197
<u>198</u>	$2 \cdot 3^2 \cdot 11$	19
<u>199</u>	<b>199</b>	199
<u>200</u>	$2^3 \cdot 5^2$	16
<u>201</u>	$3 \cdot 67$	70
<u>202</u>	$2 \cdot 101$	103

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<u>60</u>	$2^2 \cdot 3 \cdot 5$	12
<u>61</u>	<b>61</b>	61
<u>62</u>	$2 \cdot 31$	33
<u>63</u>	$3^2 \cdot 7$	13
<u>64</u>	$2^6$	12
<u>65</u>	$5 \cdot 13$	18
<u>66</u>	$2 \cdot 3 \cdot 11$	16
<u>67</u>	<b>67</b>	67
<u>68</u>	$2^2 \cdot 17$	21
<u>69</u>	$3 \cdot 23$	26
<u>70</u>	$2 \cdot 5 \cdot 7$	14
<u>71</u>	<b>71</b>	71
<u>72</u>	$2^3 \cdot 3^2$	12
<u>73</u>	<b>73</b>	73
<u>74</u>	$2 \cdot 37$	39
<u>75</u>	$3 \cdot 5^2$	13
<u>76</u>	$2^2 \cdot 19$	23
<u>77</u>	$7 \cdot 11$	18
<u>78</u>	$2 \cdot 3 \cdot 13$	18
<u>79</u>	<b>79</b>	79
<u>80</u>	$2^4 \cdot 5$	13
<u>81</u>	$3^4$	12
<u>82</u>	$2 \cdot 41$	43
<u>83</u>	<b>83</b>	83
<u>84</u>	$2^2 \cdot 3 \cdot 7$	14
<u>85</u>	$5 \cdot 17$	22
<u>86</u>	$2 \cdot 43$	45
<u>87</u>	$3 \cdot 29$	32
<u>88</u>	$2^3 \cdot 11$	17
<u>89</u>	<b>89</b>	89
<u>90</u>	$2 \cdot 3^2 \cdot 5$	13
<u>91</u>	$7 \cdot 13$	20
<u>92</u>	$2^2 \cdot 23$	27
<u>93</u>	$3 \cdot 31$	34

<u>203</u>	$7 \cdot 29$	36
<u>204</u>	$2^2 \cdot 3 \cdot 17$	24
<u>205</u>	$5 \cdot 41$	46
<u>206</u>	$2 \cdot 103$	105
<u>207</u>	$3^2 \cdot 23$	29
<u>208</u>	$2^4 \cdot 13$	21
<u>209</u>	$11 \cdot 19$	30
<u>210</u>	$2 \cdot 3 \cdot 5 \cdot 7$	17
<u>211</u>	<b>211</b>	211
<u>212</u>	$2^2 \cdot 53$	57
<u>213</u>	$3 \cdot 71$	74
<u>214</u>	$2 \cdot 107$	109
<u>215</u>	$5 \cdot 43$	48
<u>216</u>	$2^3 \cdot 3^3$	15
<u>217</u>	$7 \cdot 31$	38
<u>218</u>	$2 \cdot 109$	111
<u>219</u>	$3 \cdot 73$	76
<u>220</u>	$2^2 \cdot 5 \cdot 11$	20
<u>221</u>	$13 \cdot 17$	30
<u>222</u>	$2 \cdot 3 \cdot 37$	42
<u>223</u>	<b>223</b>	223
<u>224</u>	$2^5 \cdot 7$	17
<u>225</u>	$3^2 \cdot 5^2$	16
<u>226</u>	$2 \cdot 113$	115
<u>227</u>	<b>227</b>	227
<u>228</u>	$2^2 \cdot 3 \cdot 19$	26
<u>229</u>	<b>229</b>	229
<u>230</u>	$2 \cdot 5 \cdot 23$	30
<u>231</u>	$3 \cdot 7 \cdot 11$	21
<u>232</u>	$2^3 \cdot 29$	35
<u>233</u>	<b>233</b>	233
<u>234</u>	$2 \cdot 3^2 \cdot 13$	21
<u>235</u>	$5 \cdot 47$	52
<u>236</u>	$2^2 \cdot 59$	63

<a href="#">94</a>	$2 \cdot 47$	49
<a href="#">95</a>	$5 \cdot 19$	24
<a href="#">96</a>	$2^5 \cdot 3$	13
<a href="#">97</a>	<b>97</b>	97
<a href="#">98</a>	$2 \cdot 7^2$	16
<a href="#">99</a>	$3^2 \cdot 11$	17
<a href="#">100</a>	$2^2 \cdot 5^2$	14
<a href="#">101</a>	<b>101</b>	101
<a href="#">102</a>	$2 \cdot 3 \cdot 17$	22
<a href="#">103</a>	<b>103</b>	103
<a href="#">104</a>	$2^3 \cdot 13$	19
<a href="#">105</a>	$3 \cdot 5 \cdot 7$	15
<a href="#">106</a>	$2 \cdot 53$	55
<a href="#">107</a>	<b>107</b>	107
<a href="#">108</a>	$2^2 \cdot 3^3$	13
<a href="#">109</a>	<b>109</b>	109
<a href="#">110</a>	$2 \cdot 5 \cdot 11$	18
<a href="#">111</a>	$3 \cdot 37$	40
<a href="#">112</a>	$2^4 \cdot 7$	15
<a href="#">113</a>	<b>113</b>	113
<a href="#">114</a>	$2 \cdot 3 \cdot 19$	24
<a href="#">115</a>	$5 \cdot 23$	28
<a href="#">116</a>	$2^2 \cdot 29$	33
<a href="#">117</a>	$3^2 \cdot 13$	19
<a href="#">118</a>	$2 \cdot 59$	61
<a href="#">119</a>	$7 \cdot 17$	24
<a href="#">120</a>	$2^3 \cdot 3 \cdot 5$	14
<a href="#">121</a>	112	22
<a href="#">122</a>	$2 \cdot 61$	63
<a href="#">123</a>	$3 \cdot 41$	44
<a href="#">124</a>	$2^2 \cdot 31$	35
<a href="#">125</a>	53	15
<a href="#">126</a>	$2 \cdot 3^2 \cdot 7$	15
<a href="#">127</a>	<b>127</b>	127

<a href="#">237</a>	$3 \cdot 79$	82
<a href="#">238</a>	$2 \cdot 7 \cdot 17$	26
<a href="#">239</a>	<b>239</b>	239
<a href="#">240</a>	$2^4 \cdot 3 \cdot 5$	16
<a href="#">241</a>	<b>241</b>	241
<a href="#">242</a>	$2 \cdot 11^2$	24
<a href="#">243</a>	35	15
<a href="#">244</a>	$2^2 \cdot 61$	65
<a href="#">245</a>	$5 \cdot 7^2$	19
<a href="#">246</a>	$2 \cdot 3 \cdot 41$	46
<a href="#">247</a>	$13 \cdot 19$	32
<a href="#">248</a>	$2^3 \cdot 31$	37
<a href="#">249</a>	$3 \cdot 83$	86
<a href="#">250</a>	$2 \cdot 5^3$	17
<a href="#">251</a>	<b>251</b>	251
<a href="#">252</a>	$2^2 \cdot 3^2 \cdot 7$	17
<a href="#">253</a>	$11 \cdot 23$	34
<a href="#">254</a>	$2 \cdot 127$	129
<a href="#">255</a>	$3 \cdot 5 \cdot 17$	25
<a href="#">256</a>	$2^8$	16
<a href="#">257</a>	<b>257</b>	257
<a href="#">258</a>	$2 \cdot 3 \cdot 43$	48
<a href="#">259</a>	$7 \cdot 37$	44
<a href="#">260</a>	$2^2 \cdot 5 \cdot 13$	22
<a href="#">261</a>	$3^2 \cdot 29$	35
<a href="#">262</a>	$2 \cdot 131$	133
<a href="#">263</a>	<b>263</b>	263
<a href="#">264</a>	$2^3 \cdot 3 \cdot 11$	20
<a href="#">265</a>	$5 \cdot 53$	58
<a href="#">266</a>	$2 \cdot 7 \cdot 19$	28
<a href="#">267</a>	$3 \cdot 89$	92
<a href="#">268</a>	$2^2 \cdot 67$	71
<a href="#">269</a>	<b>269</b>	269
<a href="#">270</a>	$2 \cdot 3^3 \cdot 5$	16

<u>128</u>	$2^7$	14
<u>129</u>	$3 \cdot 43$	46
<u>130</u>	$2 \cdot 5 \cdot 13$	20
<u>131</u>	<b>131</b>	131
<u>132</u>	$2^2 \cdot 3 \cdot 11$	18
<u>133</u>	$7 \cdot 19$	26
<u>134</u>	$2 \cdot 67$	69
<u>135</u>	$3^3 \cdot 5$	14
<u>136</u>	$2^3 \cdot 17$	23
<u>137</u>	<b>137</b>	137
<u>138</u>	$2 \cdot 3 \cdot 23$	28
<u>139</u>	<b>139</b>	139
<u>140</u>	$2^2 \cdot 5 \cdot 7$	16
<u>141</u>	$3 \cdot 47$	50
<u>142</u>	$2 \cdot 71$	73
<u>143</u>	$11 \cdot 13$	24

<u>271</u>	<b>271</b>	271
<u>272</u>	$2^4 \cdot 17$	25
<u>273</u>	$3 \cdot 7 \cdot 13$	23
<u>274</u>	$2 \cdot 137$	139
<u>275</u>	$5^2 \cdot 11$	21
<u>276</u>	$2^2 \cdot 3 \cdot 23$	30
<u>277</u>	<b>277</b>	277
<u>278</u>	$2 \cdot 139$	141
<u>279</u>	$3^2 \cdot 31$	37
<u>280</u>	$2^3 \cdot 5 \cdot 7$	18
<u>281</u>	<b>281</b>	281
<u>282</u>	$2 \cdot 3 \cdot 47$	52
<u>283</u>	<b>283</b>	283
<u>284</u>	$2^2 \cdot 71$	75
<u>285</u>	$3 \cdot 5 \cdot 19$	27
<u>286</u>	$2 \cdot 11 \cdot 13$	26

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## Sum of the Prime Factors of the Sequence Number of the Surahs

Instead of the sequence number of the surahs let us write down the sum of the prime factors of them:

$a_0(No.)$	<i>Surah</i>	$a_0(No.)$	<i>Surah</i>	$a_0(No.)$	<i>Surah</i>
1	Al-Fātiḥa	16	Al-Zumar	18	Al-Mursalāt
2	Al-Baqarah	11	Al-Mu'min	18	Al-Naba'
3	Āl 'Imrān	41	Fuṣṣilat	79	Al-Nāzi'āt
4	Al-Nisā	12	Al-Shūrā	13	'Abasa
5	Al-Māidah	43	Al-Zukhruf	12	Al-Takwīr
5	Al-En'ām	15	Al-Dukhān	43	Al-Infithār
7	Al-A'rāf	11	Al-Jāthiyah	83	Al-

					Muṭaffifin
6	Al-Anfāl	25	Al-Aḥqāf	14	Al-Inshiqāq
6	Al-Tawbah	47	Muḥammad	22	Al-Burūj
7	Yūnus	11	Al-Faṭḥ	45	Al-Ṭāriq
11	Hūd	14	Al-Ḥujurāt	32	Al-A'lā
7	Yūsuf	12	Qāf	17	Al-Ghāshiyah
13	Al-Ra'd	20	Al-Dhāriyāt	89	Al-Fajr
9	Ibrāhīm	17	Al-Ṭūr	13	Al-Balad
8	Al-Ḥijr	53	Al-Najm	20	Al-Shams
8	Al-Naḥl	11	Al-Qamar	27	Al-Layl
17	Al-'Isrā	16	Al-Raḥmān	34	Al-Ḍuḥā
8	Al-Kahf	13	Al-Wāqī'ah	49	Al-Inshirāḥ
19	Maryam	22	Al-Ḥadīd	24	Al-Tīn
9	Ṭāhā	31	Al-Mujādalah	13	Al-'Alaq
10	Al-Anbiyā	59	Al-Ḥashr	97	Al-Qadr
13	Al-Ḥajj	12	Al-Mumtaḥinah	16	Al-Bayyinah
23	Al-Mu'minūn	61	Al-Şaff	17	Al-Zilzāl
9	Al-Nūr	33	Al-Jumu'ah	14	Al-'Ādiyāt
10	Al-Furqān	13	Al-Munāfiqūn	101	Al-Qāri'ah
15	Al-Shu'arā	12	Al-Taghābun	22	Al-Takāthur
9	Al-Naml	18	Al-Ṭalāq	103	Al-'Asr
11	Al-Qaşaş	16	Al-Taḥrīm	19	Al-Humaza
29	Al-'Ankabūt	67	Al-Mulk	15	Al-Fil
10	Al-Rūm	21	Al-Qalam	55	Quraysh
31	Luqmān	26	Al-Ḥāqqah	107	Al-Mā'ūn
10	Al-Sajdah	14	Al-Ma'ārij	13	Al-Kawthar
14	Al-Aḥzāb	71	Nūḥ	109	Al-Kāfirūn
19	Saba	12	Al-Jinn	18	Al-Naşr

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12	Fāṭir	73	Al-Muzzammil	40	Tabbat
10	Yāsīn	39	Al-Muddaththir	15	Al-Ikhlāṣ
37	Al-Şaffāt	13	Al-Qiyāmah	113	Al-Falaq
21	Şād	23	Al-Insān	24	Al-Nās
			List-100		

Now, let us calculate the sum of the prime factors of the number of ayats of the surahs, following the same way:

### Sum of the Prime Factors of the Number of Ayats of the Surahs

<i>Surah</i>	$a_0(\text{Ayat})$	<i>Surah</i>	$a_0(\text{Ayat})$	<i>Surah</i>	$a_0(\text{Ayat})$
Al-Fāṭiḥa	7	Al-Zumar	13	Al-Mursalāt	12
Al-Baqarah	26	Al-Mu'min	22	Al-Naba'	11
Āl 'Imrān	16	Fuṣṣilat	11	Al-Nāzi'āt	25
Al-Nisā	19	Al-Shūrā	53	'Abasa	12
Al-Māidah	14	Al-Zukhruf	89	Al-Takwīr	29
Al-En'ām	19	Al-Dukhān	59	Al-Infīṭār	19
Al-A'rāf	105	Al-Jāthiyah	37	Al-Muṭaffifin	10
Al-Anfāl	13	Al-Aḥqāf	12	Al-Inshiqāq	10
Al-Tawbah	46	Muḥammad	21	Al-Burūj	13
Yūnus	109	Al-Fatḥ	29	Al-Ṭāriq	17
Hūd	44	Al-Ḥujurāt	8	Al-A'lā	19
Yūsuf	40	Qāf	11	Al-Ghāshiyah	15
Al-Ra'd	43	Al-Dhāriyāt	12	Al-Fajr	10
Ibrāhīm	17	Al-Ṭūr	14	Al-Balad	9
Al-Ḥijr	17	Al-Najm	33	Al-Shams	8
Al-Naḥl	14	Al-Qamar	16	Al-Layl	10



Al-'Isrā	40	Al-Raḥmān	18	Al-Ḍuḥa	11
Al-Kahf	18	Al-Wāqī'ah	13	Al-Inshirāḥ	6
Maryam	16	Al-Ḥadīd	29	Al-Tīn	6
Ṭāhā	14	Al-Mujādalah	13	Al-'Alaq	19
Al-Anbiyā	15	Al-Ḥashr	9	Al-Qadr	5
Al-Ḥajj	18	Al-Mumtaḥinah	13	Al-Bayyinah	6
Al-Mu'minūn	61	Al-Ṣaff	9	Al-Zilzāl	6
Al-Nūr	12	Al-Jumu'ah	11	Al-'Ādiyāt	11
Al-Furqān	18	Al-Munāfiqūn	11	Al-Qāri'ah	11
Al-Shu'arā	227	Al-Taghābun	8	Al-Takāthur	6
Al-Naml	34	Al-Ṭalāq	7	Al-'Asr	3
Al-Qaṣaṣ	17	Al-Taḥrīm	7	Al-Humaza	6
Al-'Ankabūt	26	Al-Mulk	10	Al-Fīl	5
Al-Rūm	12	Al-Qalam	17	Quraysh	4
Luqmān	19	Al-Ḥāqqah	17	Al-Mā'ūn	7
Al-Sajdah	10	Al-Ma'ārij	15	Al-Kawthar	3
Al-Aḥzāb	73	Nūḥ	11	Al-Kāfirūn	5
Saba	11	Al-Jinn	11	Al-Naṣr	3
Fāṭir	11	Al-Muzzammil	9	Tabbat	5
Yāsīn	83	Al-Muddaththir	13	Al-Ikhlāṣ	4
Al-Ṣaffāt	22	Al-Qiyāmah	11	Al-Falaq	5
Ṣād	17	Al-Insān	31	Al-Nās	5

List-101

After specifying these two sets, now we can proceed with the determination of the subsets.

**The set of surahs with odd  $a_0$  (number of ayats)**

<i>No.</i>	<i>Surah</i>	$a_0(\text{Ayat})$	<i>No.</i>	<i>Surah</i>	$a_0(\text{Ayat})$
1	Al-Fātiḥa	7	63	Al-Munāfiqūn	11
4	Al-Nisā	19	65	Al-Ṭalāq	7
6	Al-En‘ām	19	66	Al-Taḥrīm	7
7	Al-A‘rāf	105	68	Al-Qalam	17
8	Al-Anfāl	13	69	Al-Ḥāqqah	17
10	Yūnus	109	70	Al-Ma‘ārij	15
13	Al-Ra‘d	43	71	Nūḥ	11
14	Ibrāhīm	17	72	Al-Jinn	11
15	Al-Ḥijr	17	73	Al-Muzzammil	9
21	Al-Anbiyā	15	74	Al-Muddaththir	13
23	Al-Mu‘minūn	61	75	Al-Qiyāmah	11
26	Al-Shu‘arā	227	76	Al-Insān	31
28	Al-Qaṣaṣ	17	78	Al-Naba’	11
31	Luqmān	19	79	Al-Nāzi‘āt	25
33	Al-Aḥzāb	73	81	Al-Takwīr	29
34	Saba	11	82	Al-Infītār	19
35	Fāṭir	11	85	Al-Burūj	13
36	Yāsīn	83	86	Al-Ṭāriq	17
38	Şād	17	87	Al-A‘lā	19
39	Al-Zumar	13	88	Al-Ghāshiyah	15
41	Fuṣṣilat	11	90	Al-Balad	9
42	Al-Shūrā	53	93	Al-Ḍuḥā	11
43	Al-Zukhruf	89	96	Al-‘Alaq	19
44	Al-Dukhān	59	97	Al-Qadr	5
45	Al-Jāthiyah	37	100	Al-‘Ādiyāt	11
47	Muḥammad	21	101	Al-Qāri‘ah	11
48	Al-Faṭḥ	29	103	Al-‘Asr	3
50	Qāf	11	105	Al-Fīl	5
53	Al-Najm	33	107	Al-Mā‘ūn	7

56	Al-Wāqī'ah	13	108	Al-Kawthar	3
57	Al-Ḥadīd	29	109	Al-Kāfirūn	5
58	Al-Mujādalah	13	110	Al-Naṣr	3
59	Al-Ḥashr	9	111	Tabbat	5
60	Al-Mumtaḥinah	13	113	Al-Falaq	5
61	Al-Ṣaff	9	114	Al-Nās	5
62	Al-Jumu'ah	11			

## List-102

As it is seen from the List-102, the number of members of the set of surahs with an odd numbered sum of prime factors of the number of ayats is **71**.

**71** is a prime number!

### The set of surahs with odd $a_0$ (Sequence Number)

$a_0(No.)$	<i>Surah</i>	$a_0(No.)$	<i>Surah</i>
1	Al-Fātiḥa	31	Al-Mujādalah
3	Āl 'Imrān	59	Al-Ḥashr
5	Al-Māidah	61	Al-Ṣaff
5	Al-En'ām	33	Al-Jumu'ah
7	Al-A'rāf	13	Al-Munāfiqūn
7	Yūnus	67	Al-Mulk
11	Hūd	21	Al-Qalam
7	Yūsuf	71	Nūḥ
13	Al-Ra'd	73	Al-Muzzammil
9	Ibrāhīm	39	Al-Muddaththir
17	Al-'Isrā	13	Al-Qiyāmah
19	Maryam	23	Al-Insān
9	Ṭāhā	79	Al-Nāzi'āt
13	Al-Ḥajj	13	'Abasa
23	Al-Mu'minūn	43	Al-Infiṭār
9	Al-Nūr	83	Al-Muṭaffifin
15	Al-Shu'arā	45	Al-Ṭāriq
9	Al-Naml	17	Al-Ghāshiyah

11	Al-Qaşaş	89	Al-Fajr
29	Al-‘Ankabūt	13	Al-Balad
31	Luqmān	27	Al-Layl
19	Saba	49	Al-Inshirāḥ
37	Al-Şaffāt	13	Al-‘Alaq
21	Şād	97	Al-Qadr
11	Al-Mu‘min	17	Al-Zilzāl
41	Fuṣṣilat	101	Al-Qāri‘ah
43	Al-Zukhruf	103	Al-‘Asr
15	Al-Dukhān	19	Al-Humaza
11	Al-Jāthiyah	15	Al-Fīl
25	Al-Aḥqāf	55	Quraysh
47	Muḥammad	107	Al-Mā‘ūn
11	Al-Fath	13	Al-Kawthar
17	Al-Tūr	109	Al-Kāfirūn
53	Al-Najm	15	Al-Ikhlāş
11	Al-Qamar	113	Al-Falaq
13	Al-Wāqī‘ah		

## List-103

As it is seen from the List-103, the number of members of the set of surahs with an odd numbered sum of the prime factors of the sequence number of the surahs also is **71**.

**71** is a prime number!

*Evaluation*

*Can this happen by coincidence?*

Let’s see the results which outcome collectively:

$a_0(\text{NO.})$	SURAH	$a_0(\text{Ayat})$	Surahs With Odd $a_0$ (sequence number)	Surahs With Odd $a_0$ (number of ayats)
1	Al-Fatiha	7		
2	Al-Baqarah	286	X	X
3	Al-Imran	16	X	
4	Al-Nisa	19		X
5	Al-Maidah	14	X	
7	Al-En'am	19	X	X
5	Al-A'raf	105	X	X
6	Al-Anfal	13		X
6	Al-Tawbah	46		
7	Yonus	109	X	X
11	Hud	44	X	
7	Yusuf	40	X	
13	Al-Ra'd	43	X	X
9	Ibrahim	17	X	X
8	Al-Hijr	17		X
8	Al-Nahl	14		
17	Al-Isra	40	X	
8	Al-Kahf	18		
19	Maryam	16	X	
9	Taha	14	X	
10	Al-Anbiya	15		
13	Al-Hajj	18	X	X
23	Al-Muminun	61	X	X
9	Al-Nur	12	X	
10	Al-Furqan	18		
15	Al-Shu'ara	227	X	X
9	Al-Naml	34	X	
11	Al-Qasas	17	X	
29	Al-Ankabut	26	X	
10	Al-Rum	12		
31	Luqman	19	X	X
10	Al-Sajdah	10		X
14	Al-Ahzab	73		X
19	Saba	11	X	
12	Fatir	11		X
10	Yasin	83		X
37	Al-Saffat	22	X	
21	Sad	17	X	
16	Al-Zumar	13		X
11	Al-Mumin	22	X	
41	Fussilat	11	X	
12	Al-Shura	53		X
43	Al-Zukhruf	89	X	X
15	Al-Dukhan	59	X	X
11	Al-Jathiyah	37	X	X
25	Al-Ahqaf	12	X	X
47	Muhammad	21	X	X
11	Al-Fath	26	X	
14	Al-Hujurat	8		X
12	Qaf	11		X
20	Al-Dhariyat	12		X
17	Al-Tor	14	X	
53	Al-Najm	33	X	X
11	Al-Qamar	16	X	
16	Al-Rahman	18		X
13	Al-Waqiah	13	X	
12	Al-Hadid	29		X
31	Al-Mujadilah	13	X	X
59	Al-Hashr	9	X	X
12	Al-Mumtahinah	13		X
61	Al-Saff	9	X	X
33	Al-Jum'ah	11	X	X
13	Al-Munafiqun	11	X	
12	Al-Taghabin	8		X
18	Al-Talaq	7		X
16	Al-Tahrim	7		X
67	Al-Mulk	10	X	
21	Al-Qalam	7	X	
26	Al-Haqqah	17		X
14	Al-Ma'arij	15		X
71	Nuh	11	X	
12	Al-Jinn	11		X
73	Al-Muzzammil	9	X	X
39	Al-Muddaththir	13	X	X
13	Al-Qiyamah	11	X	X
23	Al-Insan	31	X	X
18	Al-Mursalat	12		X
18	Al-Naba'	11		X
79	Al-Nazi'at	25	X	X
13	'Abasa	12	X	
12	Al-Takwir	29		X
43	Al-Infitar	19	X	X
83	Al-Mutaffifin	10	X	
14	Al-Insiquat	10		
22	Al-Buruj	13		X
45	Al-Tariq	17	X	X
32	Al-A'la	19		X
17	Al-Ghashiyah	15	X	X
89	Al-Fajr	10	X	
13	Al-Balad	9	X	
20	Al-Shams	8		X
27	Al-Layl	10	X	
34	Al-Duha	11		X
49	Al-Inshirah	6	X	
14	Al-Tin	6		X
23	Al-Alaq	19	X	X
97	Al-Qadr	5	X	X
16	Al-Bayyinah	6		
17	Al-Zilzal	6	X	
14	Al-Adiyat	11		X
101	Al-Qari'ah	11	X	X
22	Al-Takathur	6		X
103	Al-Ashr	3	X	X
19	Al-Humaza	6		X
15	Aff	5	X	X
55	Quraish	4	X	X
107	Al-Ma'un	7	X	X
13	Al-Kawthar	3	X	X
109	Al-Kafirun	5	X	X
18	Al-Nasr	3	X	X
40	Tabbat	5	X	X
15	Al-Ikhlās	4	X	X
113	Al-Falaq	5	X	X
24	Al-Nās	5	X	X

71

71

In the figure, equal distribution of the surahs with odd  $a_0$ (sequence number) and the surahs with odd  $a_0$ (number of ayats) is shown.

$a_0(\text{NO.})$	SURAH	$a_0(\text{Ayat})$	Surahs With Odd $a_0$ (sequence number)	Surahs With Odd $a_0$ (number of ayats)
1	Al-Fatiha	7		
2	Al-Baqarah	286	X	X
3	Al-Imran	16		
4	Al-Nisa	19	X	X
5	Al-Maidah	14		
5	Al-En'am	19	X	X
7	Al-A'raf	105	X	X
6	Al-Anfal	13		
6	Al-Tawbah	46		
7	Yonus	109	X	X
11	Hud	44	X	X
7	Yusuf	40	X	X
13	Al-Ra'd	43	X	X
9	Ibrahim	17	X	X
8	Al-Hijr	17		
8	Al-Nahl	14		
17	Al-Isra	40	X	X
6	Al-Kahf	16		
19	Maryam	16	X	X
9	Taha	14	X	X
10	Al-Anbiya	15		
13	Al-Hajj	18	X	X
23	Al-Muminun	61	X	X
9	Al-Nur	12	X	X
10	Al-Furqan	18		
15	Al-Shu'ara	227	X	X
9	Al-Naml	34	X	X
11	Al-Qasas	17	X	X
29	Al-Ankabut	26	X	X
10	Al-Rum	12		
31	Luqman	19	X	X
10	Al-Sajdah	10		
14	Al-Ahzab	73		
19	Saba	11	X	X
12	Fatir	11	X	X
10	Yasin	83	X	X
37	Al-Saffat	22	X	X
21	Sad	17	X	X
16	Al-Zumar	13		
11	Al-Mumin	13	X	X
41	Fussilat	11	X	X
12	Al-Shura	52	X	X
43	Al-Zukhruf	89	X	X
15	Al-Dukhan	59	X	X
15	Al-Jathiyah	37	X	X
25	Al-Ahqaf	12	X	X
47	Muhamamad	21	X	X
11	Al-Fath	29	X	X
14	Al-Hujurat	8		
12	Qaf	11	X	X
20	Al-Dhariat	12		
17	Al-Tur	14	X	X
53	Al-Najm	33	X	X
11	Al-Qamar	16	X	X
16	Al-Rahman	18		
13	Al-Waqiah	13	X	X
22	Al-Hasd	29	X	X
31	Al-Mujadalah	13	X	X
59	Al-Hashr	9		
12	Al-Mumtahinah	9		
61	Al-Staff	9		
33	Al-Jum'ah	11	X	X
13	Al-Munafiqun	11	X	X
12	Al-Taghabun	8		
18	Al-Talaa	7		
16	Al-Tahrim	7		
67	Al-Mulk	10	X	X
21	Al-Qalam	10	X	X
26	Al-Haqqah	17		
14	Al-Ma'arij	15		
71	Nuh	11	X	X
12	Al-Jinn	11	X	X
73	Al-Muzzammil	9		
39	Al-Muddaththir	13	X	X
13	Al-Qiyamah	11		
23	Al-Insan	31	X	X
18	Al-Mursalat	12		
18	Al-Naba'	11		
79	Al-Nazi'at	25	X	X
13	'Abasa	12	X	X
12	Al-Takwir	29		
43	Al-Infitar	19	X	X
83	Al-Mutaffifin	10	X	X
14	Al-Inshiqaq	10		
22	Al-Buruj	13		
45	Al-Tariq	17	X	X
32	Al-A'la	19	X	X
17	Al-Ghashiyah	15	X	X
89	Al-Fajr	10	X	X
13	Al-Balad	9	X	X
20	Al-Shams	8		
27	Al-Layl	10	X	X
34	Al-Duha	11		
49	Al-Inshirah	6	X	X
24	Al-Tin	6		
13	Al-Alaq	19	X	X
97	Al-Qadr	5	X	X
16	Al-Bayyinah	6		
17	Al-Zilzal	6	X	X
14	Al-Adiyat	11		
101	Al-Qari'ah	11	X	X
22	Al-Takathur	6	X	X
103	Al-Ashr	3	X	X
19	Al-Humaza	6	X	X
15	Aff	5	X	X
55	Quraish	4	X	X
107	Al-Ma'un	7	X	X
13	Al-Kawthar	3	X	X
109	Al-Kafirun	5	X	X
16	Al-Nasr	3	X	X
40	Tabbat	5	X	X
15	Al-Ikhlis	4	X	X
113	Al-Falaq	5	X	X
24	Al-Nas	5	X	X

In the figure, (prime-prime) distribution of the surahs with odd  $a_0$ (sequence number) and the surahs with odd  $a_0$ (number of ayats) is shown.

**The set of surahs with even  $a_0$  (number of ayats)**

<i>No.</i>	<i>Surah</i>	$a_0(\text{Ayat})$	<i>No.</i>	<i>Surah</i>	$a_0(\text{Ayat})$
2	Al-Baqarah	26	51	Al-Dhāriyāt	12
3	Āl ‘Imrān	16	52	Al-Ṭūr	14
5	Al-Māidah	14	54	Al-Qamar	16
9	Al-Tawbah	46	55	Al-Raḥmān	18
11	Hūd	44	64	Al-Taghābun	8
12	Yūsuf	40	67	Al-Mulk	10
16	Al-Naḥl	14	77	Al-Mursalāt	12
17	Al-‘Isrā	40	80	‘Abasa	12
18	Al-Kahf	18	83	Al-Muṭaffifīn	10
19	Maryam	16	84	Al-Inshiqāq	10
20	Ṭāhā	14	89	Al-Fajr	10
22	Al-Ḥajj	18	91	Al-Shams	8
24	Al-Nūr	12	92	Al-Layl	10
25	Al-Furqān	18	94	Al-Inshirāḥ	6
27	Al-Naml	34	95	Al-Ṭin	6
29	Al-‘Ankabūt	26	98	Al-Bayyinah	6
30	Al-Rūm	12	99	Al-Zilzāl	6
32	Al-Sajdah	10	102	Al-Takāthur	6
37	Al-Ṣaffāt	22	104	Al-Humaza	6
40	Al-Mu‘min	22	106	Quraysh	4
46	Al-Aḥqāf	12	112	Al-Ikhlāṣ	4
49	Al-Ḥujurāt	8			

List-104

As it is seen from the List-104, the number of members of the set of surahs with an even numbered sum of prime factors of the number of ayats is **43**.

**43** is a prime number!

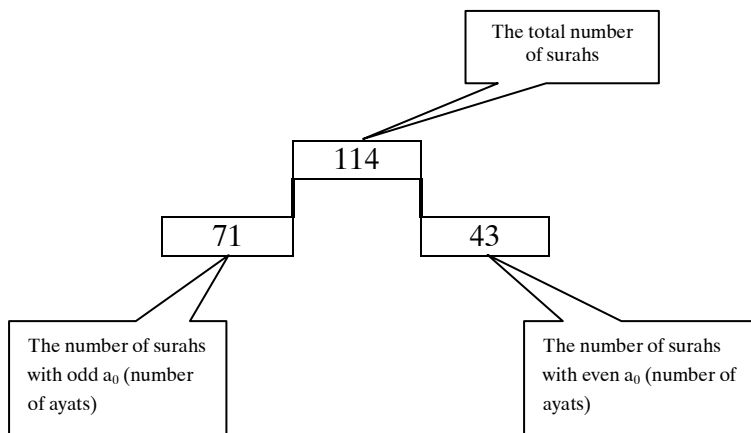


Figure-20 Distribution of the surahs (as prime and prime) is shown.

### The set of surahs with even $a_0$ (Sequence Number)

$a_0$ (No.)	<i>Surah</i>
2	Al-Baqarah
4	Al-Nisā
6	Al-Anfāl
6	Al-Tawbah
8	Al-Ḥijr
8	Al-Naḥl
8	Al-Kahf
10	Al-Anbiyā
10	Al-Furqān
10	Al-Rūm
10	Al-Sajdah
14	Al-Aḥzāb
12	Fāṭir
10	Yāsīn
16	Al-Zumar
12	Al-Shūrā
14	Al-Ḥujurāt
12	Qāf

$a_0$ (No.)	<i>Surah</i>
12	Al-Taghābun
18	Al-Ṭalāq
16	Al-Taḥrīm
26	Al-Ḥāqqah
14	Al-Ma'ārij
12	Al-Jinn
18	Al-Mursalāt
18	Al-Naba'
12	Al-Takwīr
14	Al-Inshiqāq
22	Al-Burūj
32	Al-A'lā
20	Al-Shams
34	Al-Ḍuḥā
24	Al-Tīn
16	Al-Bayyinah
14	Al-'Ādiyāt
22	Al-Takāthur



20	Al-Dhāriyāt	18	Al-Naṣr
16	Al-Raḥmān	40	Tabbat
22	Al-Ḥadīd	24	Al-Nās
12	Al-Mumtaḥinah		

List-105

As it is seen from the List-105, the number of members of the set of surahs with an even numbered sum of the prime factors of the sequence number of the surahs also is **43**.

**43** is a prime number!

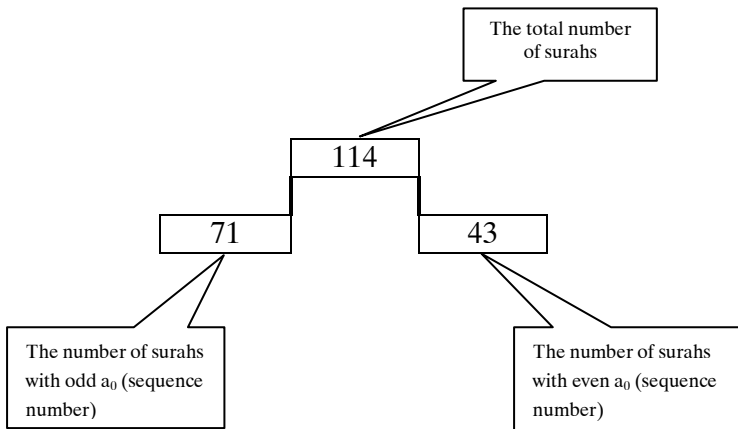


Figure-21 Distribution of the surahs (as prime and prime) is shown.

### *Evaluation*

*In a single word, it is incredible...*

Let's see the results which outcome collectively:

$a_i(NO.)$	SURAH	$a_i(Ayat)$	Surahs With Even $a_i$ (sequence number)	Surahs With Even $a_i$ (number of ayats)
1	Al-Fatiha	7		
2	Al-Baqarah	26	X	X
3	Al-Imran	16		X
4	Al-Nisa	19	X	
5	Al-Maidah	14		X
5	Al-En'am	19		
7	Al-Araf	105		
6	Al-Anfal	13	X	
6	Al-Tawbah	46	X	X
7	Yunus	109		
11	Hud	44		X
7	Yusuf	40		X
13	Al-Ra'd	43		
9	Ibrahim	17		
8	Al-Hijr	17	X	
8	Al-Nahl	14	X	X
17	Al-Isra	40		X
8	Al-Kahf	18	X	X
19	Maryam	16		X
9	Taha	14		X
10	Al-Anbiya	15	X	
13	Al-Hajj	18		X
23	Al-Mu'minun	61		X
9	Al-Nur	12		X
10	Al-Furqan	18	X	X
15	Al-Shura	227		X
9	Al-Naml	34		X
11	Al-Qasas	17		X
29	Al-Akhabut	26		X
10	Al-Rum	12	X	X
31	Luqman	19		
10	Al-Sajdah	10	X	X
14	Al-Azab	73		
19	Saba	11		
12	Fatir	11	X	
10	Yasin	83	X	
37	Al-Saffat	22		X
	Sad	17		
16	Al-Zumar	13	X	
11	Al-Mu'min	22		X
41	Fussilat	11		
12	Al-Shura	53	X	
43	Al-Zukhruf	89		
15	Al-Dukhan	59		
11	Al-Jathiyah	37		
25	Al-Ahqaf	12		X
47	Muhammad	21		
11	Al-Fath	29		
14	Al-Hujurat	8	X	X
17	Qaf	11	X	X
20	Al-Dhariyat	12	X	X
12	Al-Tur	14		X
53	Al-Najm	33		X
11	Al-Qamar	16		X
16	Al-Rahman	18	X	X
13	Al-Waqiah	13		X
22	Al-Hadid	29	X	
31	Al-Mujadilah	13		
59	Al-Hashr	9		
12	Al-Mumtahinah	13	X	
61	Al-Saff	9		
33	Al-Jumu'ah	11		
13	Al-Munafiqun	11		
12	Al-Taghabun	8	X	
18	Al-Talaq	7	X	
16	Al-Tahrim	7	X	X
67	Al-Mulk	10		X
21	Al-Qalam	17		
26	Al-Haqqah	17	X	
14	Al-Ma'arij	15	X	
71	Nuh	11		
12	Al-Jinn	11	X	
73	Al-Muzzammil	9		
39	Al-Muddaththir	13		
13	Al-Qiyamah	11		
23	Al-Insan	31		
18	Al-Mursalat	12	X	X
18	Al-Naba	11	X	X
79	Al-Nazi'at	25		
13	'Abasa	12		X
12	Al-Takwir	29	X	
43	Al-Infitar	19		
83	Al-Mutaffifin	10		X
14	Al-Inshiqaq	10	X	X
22	Al-Buruj	13	X	
45	Al-Tariq	17		
32	Al-A'la	19	X	
17	Al-Ghashiyah	15		
89	Al-Fajr	10		X
13	Al-Balad	9		
20	Al-Shams	8	X	X
27	Al-Layl	10		X
34	Al-Duha	11	X	X
49	Al-Inshirah	6		X
24	Al-Tin	6	X	X
13	Al-Alaq	19		
97	Al-Qadr	5		
16	Al-Bayyinah	6	X	X
17	Al-Zilzal	6	X	X
14	Al-Adiyat	11		
101	Al-Qariyah	11		
22	Al-Takathur	6	X	X
103	Al-Asr	3		
19	Al-Humaza	6		X
15	Al-Fil	5		
55	Quraysh	4		
107	Al-Madon	7		X
13	Al-Kawthar	3		
109	Al-Kafirun	5		
18	Al-Nasr	3	X	
40	Tabbat	5	X	
15	Al-Ikhlās	4		X
113	Al-Falaq	5		
24	Al-Nas	5	X	

43

43


In the figure, equal distribution of the surahs with even  $a_i$ (sequence number) and the surahs with even  $a_i$ (number of ayats) is shown.

$a_i(No.)$	SURAH	$a_i(Ayat)$	Surahs With Even $a_i$ (sequence number)	Surahs With Even $a_i$ (number of ayats)
1	Al-Fatiha	7		
2	Al-Baqarah	26	X	X
3	Al-Imran	16		X
4	Al-Nisa	19	X	
5	Al-Maidah	14		X
5	Al-En'am	19		
7	Al-Araf	105		
6	Al-Anfal	13	X	
6	Al-Tawbah	46	X	X
7	Yunus	109		
11	Hud	44		X
7	Yusuf	40		X
13	Al-Ra'd	43		
9	Ibrahim	17		
8	Al-Hijr	17		
8	Al-Nahl	14	X	X
17	Al-Isra	40		X
8	Al-Kahf	18	X	X
19	Maryam	16		X
9	Taha	14		X
10	Al-Anbiya	15	X	X
13	Al-Hajj	18		
23	Al-Mu'minun	61		X
9	Al-Nur	12		X
10	Al-Furqan	18	X	X
15	Al-Shu'ara	227		X
9	Al-Naml	34		X
11	Al-Qasas	17		X
29	Al-Akabbat	26		X
10	Al-Rum	12	X	X
31	Luqman	19		X
10	Al-Sajdah	10	X	X
14	Al-Azab	73		
19	Saba	11		
12	Fatir	11	X	
10	Yasin	83	X	
37	Al-Saffat	22		X
17	Sad	17		
16	Al-Zumar	13	X	
11	Al-Mu'minin	22		X
41	Fussilat	11		X
12	Al-Shura	53	X	
43	Al-Zukhruf	89		
15	Al-Dukhan	59		
11	Al-Jathiyah	37		
25	Al-Ahqaf	12		X
47	Muhammad	21		
11	Al-Fath	29		
14	Al-Hujurat	8	X	
12	Qaf	11	X	
20	Al-Dhariyat	12	X	
17	Al-Tur	14		X
53	Al-Najm	33		X
11	Al-Qamar	16		X
16	Al-Rahman	18	X	X
13	Al-Waqiah	13		X
22	Al-Hadid	29		X
31	Al-Mujadilah	13		
59	Al-Hashr	9		
12	Al-Mumtahinah	13	X	
61	Al-Saff	9		
33	Al-Jumu'ah	11		
13	Al-Munafiqun	11		
12	Al-Taghabun	8	X	
18	Al-Talaq	7	X	
16	Al-Tahrim	7	X	
67	Al-Mulk	10		X
21	Al-Qalam	17		
26	Al-Haqqah	17	X	
14	Al-Ma'arij	15	X	
71	Nuh	11	X	
12	Al-Jinn	11		
73	Al-Muzzammil	9		
39	Al-Muddaththir	13		
13	Al-Qiyamah	11		
23	Al-Insan	31		
18	Al-Mursalat	12	X	X
18	Al-Naba	11	X	
79	Al-Nazi'at	25		
13	'Abasa	12		X
12	Al-Takwir	29	X	
43	Al-Infir	19		
83	Al-Mutaffifin	10		X
14	Al-Inshiqaaq	10	X	X
22	Al-Buruj	13	X	
45	Al-Tariq	17		
32	Al-A'la	14	X	
17	Al-Ghashiyah	15		
89	Al-Fajr	10		X
13	Al-Balad	9		
20	Al-Shams	8	X	X
27	Al-Layl	10		X
34	Al-Duha	11	X	X
49	Al-Inshirah	6		X
24	Al-Tin	6	X	X
13	Al-Alaq	19		
97	Al-Qadr	5		
16	Al-Bayyinah	6		X
17	Al-Zilzal	6	X	X
14	Al-Adiyat	11		
101	Al-Qari'ah	11		
22	Al-Takathur	6	X	X
103	Al-Asr	3		
19	Al-Humaza	6		X
15	Al-Fil	5		
55	Quraysh	4		X
107	Al-Madun	7		
13	Al-Kawthar	3		
109	Al-Kafirun	5		
18	Al-Nasr	3		
40	Tabbat	5	X	
15	Al-Ikhlās	4		X
113	Al-Falaq	5		
24	Al-Nas	5	X	

Prime

Prime

In the figure, (prime-prime) distribution of the surahs with even  $a_i$ (sequence number) and the surahs with even  $a_i$ (number of ayats) is shown.

 **Question:** How many of the numbers in the sum of the prime factors of the number of ayats of the surahs are prime numbers and how many of them are not?

In order to give an answer to this question, we should have to constitute these two sets:

- \* The set of surahs with prime  $a_0$   
[number of ayats]
- \* The set of surahs with non-prime  $a_0$   
[number of ayats]

### The set of surahs with prime $a_0$ (number of ayats)

<i>Surah</i>	$a_0(\text{Ayat})$	<i>Surah</i>	$a_0(\text{Ayat})$
Al-Fātiḥa	7	Al-Munāfiqūn	11
Al-Nisā	19	Al-Ṭalāq	7
Al-En‘ām	19	Al-Taḥrīm	7
Al-Anfāl	13	Al-Qalam	17
Yūnus	109	Al-Ḥāqqah	17
Al-Ra‘d	43	Nūḥ	11
Ibrāhīm	17	Al-Jinn	11
Al-Ḥijr	17	Al-Muddaththir	13
Al-Mu‘minūn	61	Al-Qiyāmah	11
Al-Shu‘arā	227	Al-Insān	31
Al-Qaşaş	17	Al-Naba’	11
Luqmān	19	Al-Takwīr	29
Al-Aḥzāb	73	Al-Infiṭār	19
Saba	11	Al-Burūj	13
Fāṭir	11	Al-Ṭāriq	17
Yāsīn	83	Al-A‘lā	19
Şād	17	Al-Ḍuḥa	11
Al-Zumar	13	Al-‘Alaq	19
Fuṣṣilat	11	Al-Qadr	5

Al-Shūrā	53	Al-‘Ādiyāt	11
Al-Zukhruf	89	Al-Qāri‘ah	11
Al-Dukhān	59	Al-‘Asr	3
Al-Jāthiyah	37	Al-Fīl	5
Al-Fatḥ	29	Al-Mā‘ūn	7
Qāf	11	Al-Kawthar	3
Al-Wāqi‘ah	13	Al-Kāfirūn	5
Al-Ḥadīd	29	Al-Naṣr	3
Al-Mujādalah	13	Tabbat	5
Al-Mumtaḥinah	13	Al-Falaq	5
Al-Jumu‘ah	11	Al-Nās	5

List-106

If we count the members of the List-106, we find that the total members of this set are **60**.

### The set of surahs with non-prime $a_0$ (number of ayats)

<i>Surah</i>	$a_0(\text{Ayat})$	<i>Surah</i>	$a_0(\text{Ayat})$
Al-Baqarah	26	Al-Najm	33
Āl ‘Imrān	16	Al-Qamar	16
Al-Māidah	14	Al-Raḥmān	18
Al-A‘rāf	105	Al-Ḥashr	9
Al-Tawbah	46	Al-Ṣaff	9
Hūd	44	Al-Taghābun	8
Yūsuf	40	Al-Mulk	10
Al-Naḥl	14	Al-Ma‘ārij	15
Al-‘Isrā	40	Al-Muzzammil	9
Al-Kahf	18	Al-Mursalāt	12
Maryam	16	Al-Nāzi‘āt	25
Ṭāhā	14	‘Abasa	12
Al-Anbiyā	15	Al-Muṭaffifīn	10
Al-Ḥajj	18	Al-Inshiqāq	10
Al-Nūr	12	Al-Ghāshiyah	15

Al-Furqān	18	Al-Fajr	10
Al-Naml	34	Al-Balad	9
Al-‘Ankabūt	26	Al-Shams	8
Al-Rūm	12	Al-Layl	10
Al-Sajdah	10	Al-Inshirāḥ	6
Al-Şaffāt	22	Al-Tīn	6
Al-Mu’min	22	Al-Bayyinah	6
Al-Aḥqāf	12	Al-Zilzāl	6
Muḥammad	21	Al-Takāthur	6
Al-Ḥujurāt	8	Al-Humaza	6
Al-Dhāriyāt	12	Quraysh	4
Al-Ṭūr	14	Al-Ikhlās	4

List-107

If we count the members of the List-107, we find that the total members of this set are **54**.

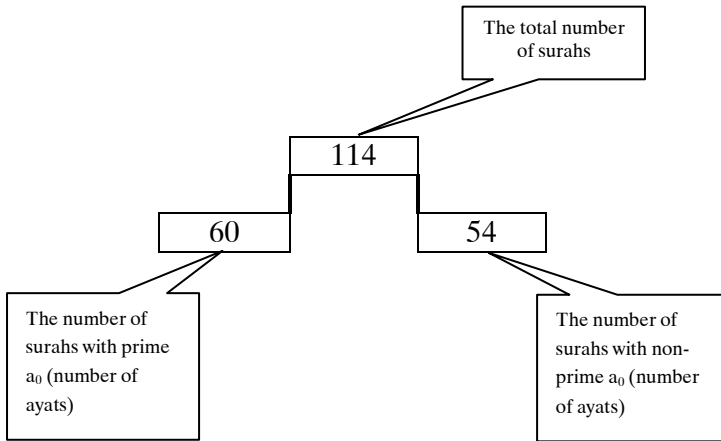


Figure-22 The distribution of the surahs with prime and non-prime number in  $a_0$  (number of ayats) is seen.

### *Evaluation*

*As you can remember, the number of ayats of the 114 surahs consists of 60 even and 54 odd numbers. Now, the same sharing occurs as prime and non-prime numbers in the sum of the prime factors of the number of ayats!!!*

Let's see the results which outcome collectively:

Ayat	SURAH	a <sub>0</sub> (Ayat)	Surahs With Even Number of Ayats	Surahs With Prime a <sub>0</sub> (number of ayats)
7	Al-Fatiha	7		X
286	Al-Baqarah	26	X	
200	Al-Imran	16	X	
176	Al-Nisa	19	X	X
120	Al-Maidah	14	X	
165	Al-En'am	19		X
206	Al-Araf	105	X	
75	Al-Anfal	13		X
129	Al-Tawbah	46		X
109	Yunus	109		X
123	Hud	44		
111	Yusuf	40		
43	Al-Ra'd	43		X
52	Ibrahim	17	X	X
99	Al-Hijr	17	X	X
128	Al-Nahl	14	X	X
111	Al-Isra	40		
110	Al-Kahf	18	X	
98	Maryam	16	X	
135	Taha	14		
112	Al-Anbiya	15	X	
78	Al-Hajj	18	X	
118	Al-Muminun	61	X	X
64	Al-Nur	12	X	
77	Al-Furqan	18		
227	Al-Shu'ara	227		X
93	Al-Naml	34		X
88	Al-Qasas	17	X	X
69	Al-Ahkab	26		X
60	Al-Rum	12	X	X
34	Luqman	19	X	X
30	Al-Sajdah	10	X	X
73	Al-Ahzab	73		X
54	Saba	11	X	X
45	Fatir	11	X	X
83	Yasin	83		X
182	Al-Saffat	22	X	X
88	Sad	17	X	X
75	Al-Zumar	13		X
85	Al-Muramin	22		X
54	Fussilat	11	X	X
53	Al-Shura	53		X
89	Al-Zukhruf	89		X
59	Al-Dukhan	59		X
37	Al-Jathiyah	37		X
35	Al-Ahqaf	12		X
38	Muhammad	21	X	X
29	Al-Fath	29		X
18	Al-Hujurat	8	X	X
45	Qaf	11		X
60	Al-Dhariyat	12	X	X
49	Al-Tur	14		X
62	Al-Najm	33	X	X
55	Al-Qamar	16		X
78	Al-Rahman	18	X	X
96	Al-Waqiah	13	X	X
29	Al-Hashd	29		X
22	Al-Mujadilah	13		X
24	Al-Hashr	9	X	X
13	Al-Mumtahinah	13		X
14	Al-Saff	9		X
11	Al-Jumu'ah	11		X
11	Al-Munafiqun	11		X
10	Al-Taghabin	8	X	X
12	Al-Talaa	7	X	X
12	Al-Tahrim	7	X	X
30	Al-Mulk	10	X	X
52	Al-Qalam	17	X	X
52	Al-Haqqah	17	X	X
44	Al-Ma'arij	15	X	X
28	Nuh	11	X	X
28	Al-Jinn	11		X
20	Al-Muzzammil	9	X	X
56	Al-Mudaththir	13	X	X
40	Al-Qiyamah	11	X	X
31	Al-Insan	31		X
50	Al-Mursalat	12	X	X
40	Al-Naba'	11	X	X
46	Al-Nazi'at	25	X	X
42	'Abasa	12	X	X
29	Al-Takwir	29		X
19	Al-Infitar	19		X
36	Al-Mutaffifin	10	X	X
25	Al-Inshiqaaq	10	X	X
22	Al-Buruj	13		X
17	Al-Tariq	17		X
19	Al-A'la	19		X
26	Al-Ghashiyah	15	X	X
30	Al-Fajr	10	X	X
20	Al-Balad	9	X	X
15	Al-Shams	8		X
21	Al-Layl	10		X
11	Al-Duha	11		X
8	Al-Inshirah	6	X	X
8	Al-Tin	6	X	X
19	Al-Alaq	19		X
5	Al-Qadr	5		X
8	Al-Bayyinah	6	X	X
8	Al-Zilzal	6	X	X
11	Al-Adiyah	11		X
11	Al-Qari'ah	11		X
8	Al-Takathur	6	X	X
3	Al-Asr	3		X
9	Al-Humaza	6		X
5	Al-Fil	5		X
4	Quraysh	4	X	X
7	Al-Ma'on	7		X
3	Al-Kawthar	3		X
6	Al-Kafirun	5	X	X
3	Al-Nasr	3		X
5	Tabbat	5		X
4	Al-Ikhlās	4	X	X
5	Al-Falaq	5		X
6	Al-Nās	5	X	X

60

60

In the figure, equal distribution of the surahs with even number of ayats and the surahs with prime a<sub>0</sub>(number of ayats) is shown.

Ayat	SURAH	$a_n(\text{Ayat})$	Surahs With Odd Number of Ayats	Surahs With Non-Prime $a_n(\text{number of ayats})$
7	Al-Fatiha	7		
286	Al-Baqarah	26	x	x
200	Al-Imran	16		x
176	Al-Nisa	19		x
120	Al-Maidah	14		x
165	Al-En'am	19	x	
206	Al-Araf	105		x
75	Al-Anfal	13	x	
129	Al-Tawbah	46	x	x
109	Yunus	109	x	
123	Hud	44	x	x
111	Yusuf	40	x	x
43	Al-Ra'd	43	x	
52	Ibrahim	17		x
99	Al-Hijr	17	x	
128	Al-Nahl	14		x
111	Al-Isra	40	x	x
110	Al-Kahf	18		x
98	Maryam	16		x
135	Taha	14	x	x
112	Al-Anbiya	15		x
78	Al-Hajj	18		x
118	Al-Muminun	61		x
64	Al-Nur	12		x
77	Al-Furqan	18	x	x
227	Al-Shura	227	x	x
93	Al-Naml	34	x	
88	Al-Qasas	17		x
69	Al-Ahkab	26	x	x
60	Al-Rum	12		x
34	Luqman	19		
30	Al-Sajdah	10		x
73	Al-Azab	73	x	
54	Saba	11		
45	Fatir	11	x	
83	Yasin	83	x	
182	Al-Saffat	22		x
88	Sad	17		
75	Al-Zumar	13	x	
85	Al-Mumin	22	x	x
54	Fussilat	11		
53	Al-Shura	53	x	
89	Al-Zukhruf	89	x	
59	Al-Dukhan	59	x	
37	Al-Jathiyah	37	x	
35	Al-Ahqaf	12	x	
38	Muhammad	21		x
29	Al-Fath	29	x	
18	Al-Hujurat	8		x
45	Qaf	11		
60	Al-Dhariyat	12		x
49	Al-Tur	14	x	x
62	Al-Najm	33		x
55	Al-Qamar	16	x	x
78	Al-Rahman	18		x
96	Al-Waqiah	13		x
29	Al-Hashd	29	x	
22	Al-Majdalah	13		x
24	Al-Hashr	9		x
13	Al-Mumtahinah	13	x	
14	Al-Saff	9		x
11	Al-Jum'ah	11		
11	Al-Munafiqun	11	x	
18	Al-Taghabun	8		x
12	Al-Talag	7		
12	Al-Tahrim	7		
30	Al-Mulk	10		x
52	Al-Qalam	17		
52	Al-Haqqah	17		
44	Al-Ma'arij	15		x
28	Nuh	11		
28	Al-Jinn	11		
20	Al-Muzzammil	9		x
56	Al-Muddaththir	13		
40	Al-Qiyamah	11		
31	Al-Insan	31	x	
50	Al-Mursalat	12		x
40	Al-Naba	11		
46	Al-Nazi'at	25		x
42	'Abasa	12		x
29	Al-Takwir	29		x
19	Al-Infitar	19		
36	Al-Mutaffifin	10		x
25	Al-Inshiqaq	10	x	
22	Al-Buruj	13		x
17	Al-Tariq	17	x	
19	Al-A'la	19	x	
26	Al-Ghashiyah	15		x
30	Al-Fajr	10		x
20	Al-Balad	9		x
15	Al-Shams	8	x	x
21	Al-Layl	10		x
11	Al-Duha	11		x
8	Al-Inshirah	6		x
8	Al-Tin	6		x
19	Al-Alaq	19		
5	Al-Qadr	5	x	
8	Al-Bayyinah	6		x
8	Al-Zilzal	6		x
11	Al-Adiyāt	11	x	
11	Al-Qari'ah	11		
8	Al-Takathur	6		x
3	Al-Asr	3		
9	Al-Humaza	6		x
5	Al-Fil	5		x
4	Quraysh	4		
7	Al-Ma'on	7	x	x
3	Al-Kawthar	3	x	
6	Al-Kafirun	5		
3	Al-Nasr	3		
5	Tabbat	5	x	
4	Al-Ikhlās	4		
5	Al-Falaq	5		x
6	Al-Nās	5	x	

54

54

In the figure, equal distribution of the surahs with odd number of ayats and the surahs with non-prime  $a_n(\text{number of ayats})$  is shown.



**The surahs which take place in the first half of the Qur'ān with a prime number of  $a_0$  (number of ayats)**

<i>Surah</i>	$a_0$ (Ayat)	<i>Surah</i>	$a_0$ (Ayat)
Al-Fātiḥa	7	Fāṭir	11
Al-Nisā	19	Yāsīn	83
Al-En'ām	19	Şād	17
Al-Anfāl	13	Al-Zumar	13
Yūnus	109	Fuṣṣilat	11
Al-Ra'd	43	Al-Shūrā	53
Ibrāhīm	17	Al-Zukhruf	89
Al-Ḥijr	17	Al-Dukhān	59
Al-Mu'minūn	61	Al-Jāthiyah	37
Al-Shu'arā	227	Al-Faṭḥ	29
Al-Qaşaş	17	Qāf	11
Luqmān	19	Al-Wāqī'ah	13
Al-Aḥzāb	73	Al-Ḥadīd	29
Saba	11		

List-108

There are 27 surahs in List-108

**The surahs which take place in the first half of the Qur'ān with an even number of ayats**

<i>Surah</i>	Ayat	<i>Surah</i>	Ayat
Al-Baqarah	286	Al-Rūm	60
Āl 'Imrān	200	Luqmān	34
Al-Nisā	176	Al-Sajdah	30
Al-Māidah	120	Saba	54
Al-A'rāf	206	Al-Şaffāt	182
Ibrāhīm	52	Şād	88
Al-Naḥl	128	Fuṣṣilat	54
Al-Kahf	110	Muḥammad	38

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Maryam	98	Al-Ḥujurāt	18
Al-Anbiyā	112	Al-Dhāriyāt	60
Al-Ḥajj	78	Al-Najm	62
Al-Mu'minūn	118	Al-Raḥmān	78
Al-Nūr	64	Al-Wāqī'ah	96
Al-Qaṣaṣ	88		

List-109

There are **27** surahs in List-109

**The surahs which take place in the second half of the Qur'ān with a prime number of  $a_0$  (number of ayats)**

<i>Surah</i>	$a_0$ (Ayat)	<i>Surah</i>	$a_0$ (Ayat)
Al-Mujādalah	13	Al-Ṭāriq	17
Al-Mumtaḥinah	13	Al-A'lā	19
Al-Jumu'ah	11	Al-Ḍuḥā	11
Al-Munāfiqūn	11	Al-'Alaq	19
Al-Ṭalāq	7	Al-Qadr	5
Al-Taḥrīm	7	Al-'Ādiyāt	11
Al-Qalam	17	Al-Qāri'ah	11
Al-Ḥāqqah	17	Al-'Asr	3
Nūḥ	11	Al-Fīl	5
Al-Jinn	11	Al-Mā'ūn	7
Al-Muddaththir	13	Al-Kawthar	3
Al-Qiyāmah	11	Al-Kāfirūn	5
Al-Insān	31	Al-Naṣr	3
Al-Naba'	11	Tabbat	5
Al-Takwīr	29	Al-Falaq	5
Al-Infīṭār	19	Al-Nās	5
Al-Burūj	13		

List-110

There are **33** surahs in List-110

**The surahs which take place in the second half of the Qur'an with an even number of ayats**

<i>Surah</i>	<i>Ayat</i>
Al-Mujādalah	22
Al-Ḥashr	24
Al-Şaff	14
Al-Taghābun	18
Al-Ṭalāq	12
Al-Taḥrīm	12
Al-Mulk	30
Al-Qalam	52
Al-Ḥāqqah	52
Al-Ma'ārij	44
Nūḥ	28
Al-Jinn	28
Al-Muzzammil	20
Al-Muddaththir	56
Al-Qiyāmah	40
Al-Mursalāt	50
Al-Naba'	40

<i>Surah</i>	<i>Ayat</i>
Al-Nāzi'āt	46
'Abasa	42
Al-Muṭaffifin	36
Al-Burūj	22
Al-Ghāshiyah	26
Al-Fajr	30
Al-Balad	20
Al-Inshirāḥ	8
Al-Tin	8
Al-Bayyinah	8
Al-Zilzāl	8
Al-Takāthur	8
Quraysh	4
Al-Kāfirūn	6
Al-Ikhlāş	4
Al-Nās	6

List-111

There are **33** surahs in List-111

***Evaluation***

*We see above that the number of surahs with a prime number of  $a_0$  (the number of ayats) is equal to the number of surahs with an even number of ayats. Now we observe that these two surah sets with equal number of members, take place in both the first and the second half of Holy Qur'an in equal numbers!*

Let's see the results which outcome collectively:

Ayat	SURAH	$a_0(\text{Ayat})$	Surahs With Even Number of Ayats	Surahs With Prime $a_0(\text{number of ayats})$
7	Al-Fatiha	7		X
286	Al-Baqarah	286	X	
200	Al-Imran	16	X	
176	Al-Nisa	19	X	X
120	Al-Maidah	14	X	
165	Al-En'am	19		X
206	Al-A'raf	105	X	
75	Al-Anfal	13		X
129	Al-Tawbah	46		X
109	Yonus	109		X
123	Hud	44		
111	Yusuf	40		
43	Al-Ra'd	43		X
52	Ibrahim	17	X	X
89	Al-Hijr	17		X
128	Al-Nahl	14	X	
111	Al-Isra	40		X
110	Al-Kahf	18	X	
98	Maryam	16	X	
135	Taha	14		X
112	Al-Anbiya	15	X	
78	Al-Hajj	18	X	
118	Al-Muminun	61	X	X
64	Al-Nur	12	X	
77	Al-Furan	18	X	
227	Al-Shura	227	X	X
93	Al-Naml	34		X
88	Al-Anas	17	X	X
69	Al-Ankabut	26		X
60	Al-Rom	12	X	
34	Luqman	19		X
30	Al-Sajdah	10	X	
73	Al-Ahzab	73	X	X
54	Saba	11	X	X
45	Fatir	11		X
83	Yasin	83		X
182	Al-Safat	22	X	
89	Sad	17	X	
75	Al-Zumar	13		X
85	Al-Mumin	22		X
54	Fussilat	11	X	X
53	Al-Shura	53		X
89	Al-Zukhruf	89		X
59	Al-Dukhan	59		X
37	Al-Jathiyah	37		X
35	Al-Ahqaf	12		
38	Muhammed	21	X	
29	Al-Fath	29		X
18	Al-Hujurat	8	X	
45	Qaf	11		X
60	Al-Dhariyat	12	X	
49	Al-Tur	14		
62	Al-Najm	33	X	
55	Al-Qamar	16		
78	Al-Rahman	18	X	
96	Al-Waqiah	13	X	
29	Al-Nadid	29		X
22	Al-Mujadalah	13	X	
24	Al-Hashr	9	X	
13	Al-Mumtinah	13		X
14	Al-Saff	9	X	
11	Al-Jumu'ah	11		X
11	Al-Munafiqun	11		X
18	Al-Taghabun	8	X	
12	Al-Talaq	7	X	
12	Al-Tahrim	7	X	
30	Al-Mulk	10	X	
52	Al-Qalam	17	X	
52	Al-Haqqah	17	X	
44	Al-Ma'arij	15	X	
28	Noh	11	X	
28	Al-Jinn	11	X	
23	Al-Muzzammil	9	X	
56	Al-Muddaththir	13	X	
40	Al-Qiyamah	11	X	
31	Al-Insan	31		X
50	Al-Murasaat	12	X	
40	Al-Naba'	11	X	
46	Al-Nazi'at	25	X	
44	Abasa	12	X	
29	Al-Takwir	29		X
19	Al-Infitar	19		X
36	Al-Mutaffifin	10	X	
25	Al-Inshiqaq	10		X
22	Al-Buruj	13	X	
17	Al-Tariq	17		X
19	Al-Ara	19		X
26	Al-Ghashiyah	15	X	
30	Al-Fajr	10	X	
20	Al-Balad	9	X	
15	Al-Shams	8		X
21	Al-Layl	10		X
11	Al-Duha	11		X
8	Al-Inshirah	6	X	
8	Al-Tin	6	X	
19	Al-Alaq	19		X
5	Al-Qadr	5		X
8	Al-Bayyinah	6	X	
8	Al-Zilzal	6	X	
11	Al-Adiyāt	11		X
11	Al-Qari'ah	11		X
8	Al-Takathur	6	X	
3	Al-Asr	3		X
9	Al-Humaza	6		X
5	Aff	5		X
4	Quraysh	4	X	
7	Al-Ma'un	7		X
3	Al-Kawthar	3		X
6	Al-Kafirun	5	X	
3	Al-Nasr	3		X
5	Tabbat	5		X
4	Al-Ikhlās	4	X	
5	Al-Falaq	5		X
6	Al-Nās	5	X	
22	Al-Mujadalah	13	X	
24	Al-Hashr	9	X	
13	Al-Mumtinah	13		X
14	Al-Saff	9	X	
11	Al-Jumu'ah	11		X
11	Al-Munafiqun	11		X
18	Al-Taghabun	8	X	
12	Al-Talaq	7	X	
12	Al-Tahrim	7	X	
30	Al-Mulk	10	X	
52	Al-Qalam	17	X	
52	Al-Haqqah	17	X	
44	Al-Ma'arij	15	X	
28	Noh	11	X	
28	Al-Jinn	11	X	
23	Al-Muzzammil	9	X	
56	Al-Muddaththir	13	X	
40	Al-Qiyamah	11	X	
31	Al-Insan	31		X
50	Al-Murasaat	12	X	
40	Al-Naba'	11	X	
46	Al-Nazi'at	25	X	
44	Abasa	12	X	
29	Al-Takwir	29		X
19	Al-Infitar	19		X
36	Al-Mutaffifin	10	X	
25	Al-Inshiqaq	10		X
22	Al-Buruj	13	X	
17	Al-Tariq	17		X
19	Al-Ara	19		X
26	Al-Ghashiyah	15	X	
30	Al-Fajr	10	X	
20	Al-Balad	9	X	
15	Al-Shams	8		X
21	Al-Layl	10		X
11	Al-Duha	11		X
8	Al-Inshirah	6	X	
8	Al-Tin	6	X	
19	Al-Alaq	19		X
5	Al-Qadr	5		X
8	Al-Bayyinah	6	X	
8	Al-Zilzal	6	X	
11	Al-Adiyāt	11		X
11	Al-Qari'ah	11		X
8	Al-Takathur	6	X	
3	Al-Asr	3		X
9	Al-Humaza	6		X
5	Aff	5		X
4	Quraysh	4	X	
7	Al-Ma'un	7		X
3	Al-Kawthar	3		X
6	Al-Kafirun	5	X	
3	Al-Nasr	3		X
5	Tabbat	5		X
4	Al-Ikhlās	4	X	
5	Al-Falaq	5		X
6	Al-Nās	5	X	

In the figure, equal distribution of the surahs with even number of ayats and the surahs with prime  $a_0(\text{number of ayats})$  to the first and second half of the Qur'an is shown.

**The surahs which take place in the first half of the Qur'ān with a non-prime number of  $a_0$  (number of ayats)**

<i>Surah</i>	$a_0(\text{Ayat})$	<i>Surah</i>	$a_0(\text{Ayat})$
Al-Baqarah	26	Al-Furqān	18
Āl 'Imrān	16	Al-Naml	34
Al-Māidah	14	Al-'Ankabūt	26
Al-A'rāf	105	Al-Rūm	12
Al-Tawbah	46	Al-Sajdah	10
Hūd	44	Al-Şaffāt	22
Yūsuf	40	Al-Mu'min	22
Al-Naḥl	14	Al-Aḥqāf	12
Al-'Isrā	40	Muḥammad	21
Al-Kahf	18	Al-Ḥujurāt	8
Maryam	16	Al-Dhāriyāt	12
Ṭāhā	14	Al-Ṭūr	14
Al-Anbiyā	15	Al-Najm	33
Al-Ḥajj	18	Al-Qamar	16
Al-Nūr	12	Al-Raḥmān	18

List-112

There are 30 surahs in List-112

**The surahs which take place in the first half of the Qur'ān with an odd number of ayats**

<i>Surah</i>	Ayat	<i>Surah</i>	Ayat
Al-Fātiḥa	7	Al-Aḥzāb	73
Al-En'ām	165	Fāṭir	45
Al-Anfāl	75	Yāsīn	83
Al-Tawbah	129	Al-Zumar	75

Yūnus	109	Al-Mu'min	85
Hūd	123	Al-Shūrā	53
Yūsuf	111	Al-Zukhruf	89
Al-Ra'd	43	Al-Dukhān	59
Al-Hijr	99	Al-Jāthiyah	37
Al-'Isrā	111	Al-Aḥqāf	35
Ṭāhā	135	Al-Faṭḥ	29
Al-Furqān	77	Qāf	45
Al-Shu'arā	227	Al-Ṭūr	49
Al-Naml	93	Al-Qamar	55
Al-'Ankabūt	69	Al-Ḥadīd	29

List-113

There are 30 surahs in List-113

**The surahs which take place in the second half of the Qur'ān with a non-prime number of  $a_0$  (number of ayats)**

<i>Surah</i>	$a_0$ (Ayat)	<i>Surah</i>	$a_0$ (Ayat)
Al-Ḥaṣhr	9	Al-Fajr	10
Al-Ṣaff	9	Al-Balad	9
Al-Taghābun	8	Al-Shams	8
Al-Mulk	10	Al-Layl	10
Al-Ma'ārij	15	Al-Inshirāḥ	6
Al-Muzzammil	9	Al-Tin	6
Al-Mursalāt	12	Al-Bayyinah	6
Al-Nāzi'āt	25	Al-Zilzāl	6
'Abasa	12	Al-Takāthur	6
Al-Muṭaffifin	10	Al-Humaza	6
Al-Inshiqāq	10	Quraysh	4
Al-Ghāshiyah	15	Al-Ikhlāṣ	4

List-114

There are 24 surahs in List-114

**The surahs which take place in the second half of the Qur'an with an odd number of ayats**

<i>Surah</i>	<i>Ayat</i>
Al-Mumtaḥinah	13
Al-Jumu'ah	11
Al-Munāfiqūn	11
Al-Insān	31
Al-Takwīr	29
Al-Infīṭār	19
Al-Inshiqāq	25
Al-Tāriq	17
Al-A'lā	19
Al-Shams	15
Al-Layl	21
Al-Ḍuḥā	11

<i>Surah</i>	<i>Ayat</i>
Al-'Alaq	19
Al-Qadr	5
Al-'Ādiyāt	11
Al-Qāri'ah	11
Al-'Asr	3
Al-Humaza	9
Al-Fīl	5
Al-Mā'ūn	7
Al-Kawthar	3
Al-Naṣr	3
Tabbat	5
Al-Falaq	5

List-115

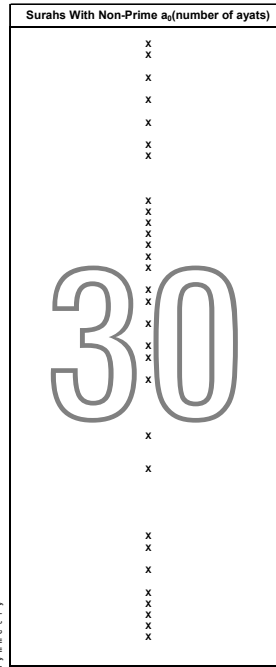
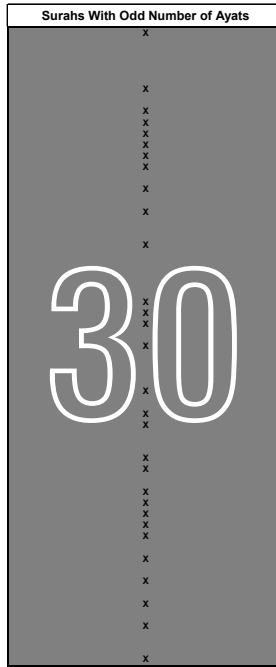
There are **24** surahs in List-115

***Evaluation***

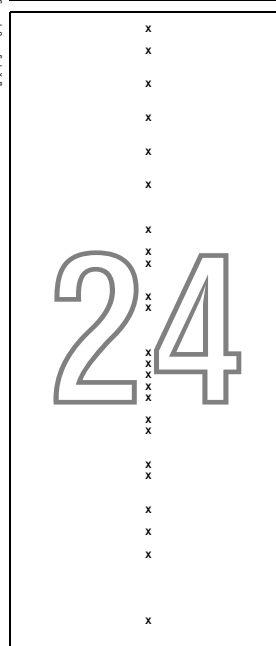
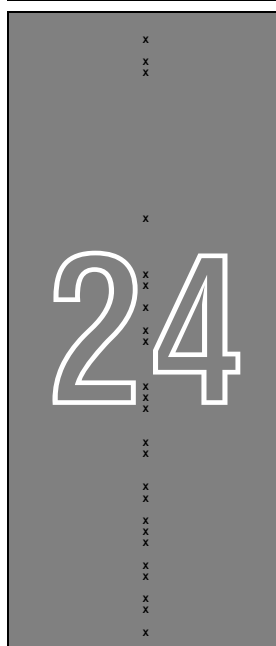
*We see above that the number of surahs with a non-prime number of  $a_0$  (the number of ayats) is equal to the number of surahs with an odd number of ayats. Now we observe that these two surah sets with equal number of members, take place in both the first and the second half of Holy Qur'an in equal numbers!*

Let's see the results which outcome collectively:

Ayat	SURAH	$a_0(\text{Ayat})$
7	Al-Fatiha	7
286	Al-Baqarah	286
200	Al-Imran	19
176	Al-Nisa	16
120	Al-Maidah	14
165	Al-En'am	19
206	Al-A'raf	105
75	Al-Anfal	13
129	Al-Tawbah	46
109	Yonus	109
123	Hud	44
111	Yusuf	40
43	Al-Ra'd	43
52	Ibrahim	17
89	Al-Hijr	17
128	Al-Nahl	14
111	Al-Isra	40
110	Al-Kahf	18
98	Maryam	16
135	Taha	14
112	Al-Anbiya	15
78	Al-Hajj	18
118	Al-Muminun	61
64	Al-Nur	12
77	Al-Furan	18
227	Al-Shura	227
93	Al-Naml	34
88	Al-Qasas	17
69	Al-Ankabut	26
60	Al-Rom	12
34	Luqman	19
30	Al-Sajdah	10
73	Al-Ahzab	73
54	Saba	11
45	Fatir	11
83	Yasin	83
182	Al-Saffat	22
89	Sad	17
75	Al-Zumar	13
85	Al-Mumin	22
54	Fussilat	11
53	Al-Shura	53
89	Al-Zukhruf	89
59	Al-Dukhan	59
37	Al-Jathiyah	37
35	Al-Ahqaf	12
38	Muhamamad	21
29	Al-Fath	29
18	Al-Hujurat	8
45	Qaf	11
60	Al-Dhariyat	12
49	Al-Tur	14
62	Al-Najm	33
55	Al-Qamar	16
78	Al-Rahman	18
96	Al-Waqiah	13
29	Al-Nadid	29




22	Al-Mujadalah	13
24	Al-Hashr	9
13	Al-Mumtahanah	13
14	Al-Saff	9
11	Al-Jumu'ah	11
11	Al-Munafiqun	11
18	Al-Taghabun	8
12	Al-Talaq	7
12	Al-Tahrim	7
30	Al-Mulk	10
52	Al-Qalam	17
52	Al-Haqqah	17
44	Al-Ma'arij	15
28	Nah	11
28	Al-Jinn	11
23	Al-Muzzammil	9
56	Al-Muddaththir	13
40	Al-Qiyamah	11
31	Al-Insan	31
50	Al-Mursalat	12
46	Al-Naba'	11
46	Al-Nazi'at	25
42	Abasa	12
29	Al-Takwir	29
19	Al-Infitar	19
36	Al-Mutaffifin	10
25	Al-Inshiqaq	10
22	Al-Buruj	13
17	Al-Tariq	17
19	Al-A'ara	19
26	Al-Ghashiyah	15
30	Al-Fajr	10
20	Al-Balad	9
15	Al-Shams	8
21	Al-Layl	10
11	Al-Duha	11
8	Al-Inshirah	6
8	Al-Tin	6
19	Al-Alaq	19
5	Al-Qadr	5
8	Al-Bayyinah	6
8	Al-Zilzal	6
11	Al-Adiyāt	11
11	Al-Qari'ah	11
8	Al-Takathur	6
3	Al-Asr	3
9	Al-Humaza	6
5	Aff	5
4	Quraysh	4
7	Al-Ma'un	7
3	Al-Kawthar	3
6	Al-Kafirun	5
3	Al-Nasr	3
5	Tabbat	5
4	Al-Ikhlās	4
5	Al-Falaq	5
6	Al-Nās	5



In the figure, equal distribution of the surahs with odd number of ayats and the surahs with non-prime  $a_0(\text{number of ayats})$  to the first and second half of the Qur'an is shown.



 **Question:** when we consider the sum of the prime factors of the sequence numbers of the surahs, and the sum of the prime factors of the number of ayats, how many of them are homogeneous and how many of them are non-homogeneous with respect to being a prime number?

In order to give an answer to this question, we should have to constitute these two sets:

\* The set of homogeneous surahs with respect to  $a_0$  (sequence number) and  $a_0$  (number of ayats) being as prime numbers

\* The set of non-homogeneous surahs with respect to  $a_0$  (sequence number) and  $a_0$  (number of ayats) being as prime numbers

**The set of homogeneous surahs with respect to  $a_0$  (sequence number) and  $a_0$  (number of ayats) being as prime numbers**

$a_0(No.)$	<i>Surah</i>	$a_0(Ayat)$	$a_0(No.)$	<i>Surah</i>	$a_0(Ayat)$
1	Al-Fātiḥa	7			
5	Al-En'ām	19	31	Al-Mujādalah	13
6	Al-Tawbah	46	13	Al-Munāfiqūn	11
7	Yūnus	109	12	Al-Taghābun	8
13	Al-Ra'd	43	14	Al-Ma'ārij	15
8	Al-Naḥl	14	71	Nūḥ	11
8	Al-Kahf	18	13	Al-Qiyāmah	11
9	Ṭāhā	14	23	Al-Insān	31
10	Al-Anbiyā	15	18	Al-Mursalāt	12
23	Al-Mu'minūn	61	43	Al-Infīṭār	19
9	Al-Nūr	12	14	Al-Inshiqāq	10

10	Al-Furqān	18	20	Al-Shams	8
9	Al-Naml	34	27	Al-Layl	10
11	Al-Qaṣaṣ	17	49	Al-Inshirāh	6
10	Al-Rūm	12	24	Al-Tīn	6
31	Luqmān	19	13	Al-'Alaq	19
10	Al-Sajdah	10	97	Al-Qadr	5
19	Saba	11	16	Al-Bayyinah	6
41	Fuṣṣilat	11	101	Al-Qāri'ah	11
43	Al-Zukhruf	89	22	Al-Takāthur	6
11	Al-Jāthiyah	37	103	Al-'Asr	3
25	Al-Aḥqāf	12	55	Quraysh	4
11	Al-Fath	29	107	Al-Mā'ūn	7
14	Al-Ḥujurat	8	13	Al-Kawthar	3
20	Al-Dhāriyat	12	109	Al-Kāfirūn	5
16	Al-Raḥmān	18	15	Al-Ikhlāṣ	4
13	Al-Wāqī'ah	13	113	Al-Falaq	5

List-116

If we count the members of the List-116, we find that the total members of this set are 53.

**53** is a prime number!

**The set of non-homogeneous surahs with respect to  $a_0$  (sequence number) and  $a_0$  (number of ayats) being as prime numbers**

$a_0(No.)$	Surah	$a_0(Ayat)$	$a_0(No.)$	Surah	$a_0(Ayat)$
2	Al-Baqarah	26	12	Al-Mumtaḥinah	13
3	Āl 'Imrān	16	61	Al-Ṣaff	9
4	Al-Nisā	19	33	Al-Jumu'ah	11
5	Al-Māidah	14	18	Al-Ṭalāq	7
7	Al-A'rāf	105	16	Al-Tahrīm	7
6	Al-Anfāl	13	67	Al-Mulk	10

11	Hūd	44	21	Al-Qalam	17
7	Yūsuf	40	26	Al-Ḥāqqah	17
9	Ibrāhīm	17	12	Al-Jinn	11
8	Al-Ḥijr	17	73	Al-Muzzammil	9
17	Al-'Isrā	40	39	Al-Muddaththir	13
19	Maryam	16	18	Al-Naba'	11
13	Al-Ḥajj	18	79	Al-Nāzi'āt	25
15	Al-Shu'arā	227	13	'Abasa	12
29	Al-'Ankabūt	26	12	Al-Takwīr	29
14	Al-Aḥzāb	73	83	Al-Muṭaffifīn	10
12	Fāṭir	11	22	Al-Burūj	13
10	Yāsīn	83	45	Al-Ṭāriq	17
21	Ṣād	17	32	Al-A'lā	19
16	Al-Zumar	13	17	Al-Ghāshiyah	15
37	Al-Ṣaffāt	22	89	Al-Fajr	10
11	Al-Mu'min	22	13	Al-Balad	9
12	Al-Shūrā	53	34	Al-Ḍuḥā	11
15	Al-Dukhān	59	17	Al-Zilzāl	6
47	Muḥammad	21	14	Al-'Ādiyāt	11
12	Qāf	11	19	Al-Humaza	6
17	Al-Ṭūr	14	15	Al-Fīl	5
53	Al-Najm	33	18	Al-Naṣr	3
11	Al-Qamar	16	40	Tabbat	5
22	Al-Ḥadīd	29	24	Al-Nās	5
59	Al-Ḥashr	9			

## List-117

If we count the members of the List-116, we find that the total members of this set are 61.

**61** is also a prime number!

ai(NO.)	SURAH	ai(Ayat)	HOMOGENOUS SURAHS		NON-HOMOGENOUS SURAHS	
1	Al-Fatiha	7				
2	Al-Baqarah	26		X		X
3	Al-Imran	16				X
4	Al-Nisa	19				X
5	Al-Maidah	14				X
5	Al-En'am	19		X		
7	Al-Araf	105				X
6	Al-Anfal	13				X
6	Al-Tawbah	46		X		
7	Yunus	109		X		
11	Hud	44				X
7	Yusuf	40				X
13	Al-Ra'd	43		X		
9	Ibrahim	17				X
8	Al-Hijr	17				X
8	Al-Nahl	14		X		
17	Al-Isra	40				X
8	Al-Kahf	18		X		
19	Maryam	16				X
9	Taha	14		X		
10	Al-Anbiya	15		X		
13	Al-Hajj	18				X
23	Al-Mu'minun	61		X		
9	Al-Nur	12		X		
10	Al-Furqan	18		X		
15	Al-Shura	227		X		
9	Al-Naml	34		X		X
11	Al-Qasas	17		X		
29	Al-Ahkab	26				X
12	Al-Rum	12		X		
31	Luqman	19		X		
10	Al-Sajdah	10		X		
14	Al-Azab	73				X
19	Saba	11		X		
12	Fatir	11				X
10	Yasin	83				X
37	Al-Saffat	22				X
21	Sad	17				X
16	Al-Zumar	13				X
11	Al-Muramin	22				X
41	Fussilat	11		X		
12	Al-Shura	53				X
43	Al-Zuhruf	89		X		
15	Al-Dukhan	59				X
11	Al-Jathiyah	37		X		
25	Al-Ahqaf	12		X		
47	Muhammad	21				X
11	Al-Fath	29		X		
14	Al-Hujurat	8		X		
12	Qaf	11				X
20	Al-Dhariyat	12		X		
17	Al-Tur	14				X
53	Al-Najm	33				X
11	Al-Qamar	16				X
16	Al-Rahman	18		X		
13	Al-Waqiah	13		X		
22	Al-Hasid	29				X
31	Al-Mujadilah	13		X		X
59	Al-Hashr	9				X
12	Al-Mumtahinah	13				X
61	Al-Saff	9				X
33	Al-Jum'ah	11				X
13	Al-Munafiqun	11		X		
12	Al-Taghoun	5		X		
18	Al-Talaa	7				X
16	Al-Tahrin	7				X
67	Al-Mulk	10				X
21	Al-Qalam	17				X
26	Al-Haqqah	17				X
14	Al-Ma'arij	15		X		
71	Nuh	11				X
12	Al-Jinn	11				X
73	Al-Muzzammil	9				X
39	Al-Mudaththir	13				X
13	Al-Qiyamah	11		X		
23	Al-Insan	31		X		
18	Al-Mursalat	12				X
18	Al-Naba'	11				X
79	Al-Nazi'at	25				X
13	'Abasa	12				X
12	Al-Takwir	29				X
43	Al-Infitar	19		X		
83	Al-Mutaffifin	10				X
14	Al-Inshiqaaq	10		X		
22	Al-Buruj	13				X
45	Al-Tariq	17				X
32	Al-A'la	19				X
17	Al-Ghashiyah	15				X
89	Al-Fajr	10				X
13	Al-Balad	9				X
20	Al-Shams	8		X		
27	Al-Layl	10				X
34	Al-Duha	11				X
49	Al-Inshirah	6		X		
24	Al-Tin	6		X		
13	Al-Alaq	19		X		
97	Al-Qadr	5		X		
16	Al-Bayyinah	6		X		
17	Al-Zilzal	6				X
14	Al-Adiyāt	11				X
101	Al-Qari'ah	11		X		
22	Al-Takathur	6		X		
103	Al-Asr	3		X		
19	Al-Humaza	6				X
15	Al-Fil	5				X
55	Quraysh	4		X		
107	Al-Ma'on	7		X		
13	Al-Kawthar	3		X		
109	Al-Kafirun	5		X		
16	Al-Nasr	3				X
40	Tabbat	5				X
15	Al-Ikhlās	4		X		
113	Al-Falaq	5		X		
24	Al-Nās	5		X		

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In the figure, (prime-prime) distribution of the homogenous and non-homogenous surahs is shown.

Surah No.	SURAH	a <sub>s</sub> (Ayat)	HOMOGENOUS SURAHS	NON-HOMOGENOUS SURAHS
1	Al-Fatiha	7		
2	Al-Baqarah	26	X	X
3	Al-Imran	16		X
4	Al-Nisa	19		X
5	Al-Maidah	14		X
5	Al-En'am	19	X	
7	Al-Araf	105		X
6	Al-Anfal	13		X
6	Al-Tawbah	46	X	
7	Yunus	109	X	
11	Hud	44		X
7	Yusuf	40		X
13	Al-Ra'd	43	X	
9	Ibrahim	17		X
8	Al-Hijr	17		X
8	Al-Nahl	14	X	
17	Al-Isra	40		X
8	Al-Kahf	18	X	
19	Maryam	16		X
9	Taha	14	X	
10	Al-Anbiya	15	X	
13	Al-Hajj	18		X
23	Al-Mu'minun	61	X	
9	Al-Nur	12	X	
10	Al-Furqan	18	X	
15	Al-Shu'ara	227	X	
9	Al-Naml	34		X
11	Al-Qasas	17	X	
29	Al-Ahkab	26		X
10	Al-Rum	12	X	
31	Luqman	19	X	
10	Al-Sajdah	10	X	
14	Al-Azab	73		X
19	Saba	11	X	
12	Fatir	11		X
10	Yasin	83		X
37	Al-Saffat	22		X
21	Sad	17		X
16	Al-Zumar	13		X
11	Al-Muramin	22		X
41	Fussilat	11	X	
12	Al-Shura	53	X	
43	Al-Zukhruf	89	X	
15	Al-Dukhan	59		X
11	Al-Jathiyah	37	X	
25	Al-Ahqaf	12	X	
47	Muhammad	21		X
11	Al-Fath	29	X	
14	Al-Hujurat	8		X
12	Qaf	11		X
20	Al-Dhariyat	12	X	
17	Al-Tur	14		X
53	Al-Najm	33		X
11	Al-Qamar	16		X
16	Al-Rahman	18	X	
13	Al-Waqiah	13	X	
22	Al-Hasid	29		X
31	Al-Mujadilah	13	X	
59	Al-Hashr	9		X
12	Al-Mumtahanah	13		X
61	Al-Saff	9		X
33	Al-Jum'ah	11		X
13	Al-Munafiqun	11	X	
12	Al-Taghabun	8	X	
18	Al-Talaaq	7		X
16	Al-Tahrim	7		X
67	Al-Mulk	10		X
21	Al-Qalam	17		X
26	Al-Haqqah	17		X
14	Al-Ma'arij	15		X
71	Nuh	11	X	
12	Al-Jinn	11		X
73	Al-Muzzammil	9		X
39	Al-Mudaththir	13		X
13	Al-Qiyamah	11		X
23	Al-Insan	31	X	
18	Al-Mursalat	12	X	
18	Al-Naba'	11		X
79	Al-Nazi'at	25		X
13	'Abasa	12		X
12	Al-Takwir	29		X
43	Al-Infitar	19		X
83	Al-Mutaffifin	10	X	
14	Al-Inshiqaaq	10	X	
22	Al-Buruj	13		X
45	Al-Tariq	17		X
32	Al-A'la	19		X
17	Al-Ghashiyah	15		X
89	Al-Fajr	10		X
20	Al-Balad	9		X
13	Al-Shams	8	X	
27	Al-Layl	10		X
34	Al-Duha	11		X
49	Al-Inshirah	6	X	
24	Al-Tin	6	X	
13	Al-Alaq	19	X	
97	Al-Qadr	5	X	
16	Al-Bayyinah	6	X	
17	Al-Zilzal	6		X
14	Al-Adiyah	11		X
101	Al-Qari'ah	11	X	
22	Al-Takathur	6	X	
103	Al-Asr	3	X	
19	Al-Humaza	6		X
15	Al-Fil	5		X
55	Quraysh	4	X	
107	Al-Ma'on	7	X	
13	Al-Kawthar	3	X	
109	Al-Kafirun	5	X	
18	Al-Nasr	3		X
40	Tabbat	5		X
15	Al-Ikhlās	4	X	
113	Al-Falaq	5	X	
24	Al-Nās	5	X	

Prime

Prime

In the figure, (prime-prime) distribution of the homogenous and non-homogenous suraahs is shown.