Hello World!

Ascii

(Replace space by ascii 1)

72, 101, 108, 108, 111, 1, 87, 111, 114, 108, 100, 33

Prime factors

1

2

3

4

5

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 101 | 2 | 2 | 3 | 1 | 3 | 3 | 2 | 2 | 2 | 3 |
| 2 |  | 2 | 2 | 37 |  | 29 | 37 | 3 | 2 | 2 | 11 |
| 2 | 3 | 3 |  |  |  | 19 | 3 | 5 |  |
| 3 | 3 | 3 |  | 3 | 5 |
| 3 | 3 | 3 | 3 |  |

max: 101, binary: 1100101, **7bits**

Fill with **1**

depth: 5

bits: 7

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 101 | 2 | 2 | 3 | 1 | 3 | 3 | 2 | 2 | 2 | 3 |
| 2 | **1** | 2 | 2 | 37 | **1** | 29 | 37 | 3 | 2 | 2 | 11 |
| 2 | **1** | 3 | 3 | **1** | **1** | **1** | **1** | 19 | 3 | 5 | **1** |
| 3 | **1** | 3 | 3 | **1** | **1** | **1** | **1** | 1 | 3 | 5 | **1** |
| 3 | **1** | 3 | 3 | **1** | **1** | **1** | **1** | **1** | 3 | **1** | **1** |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 101 | 2 | 2 | 3 | 1 | 3 | 3 | 2 | 2 | 2 | 3 |
| 2 | 1 | 2 | 2 | 37 | 1 | 29 | 37 | 3 | 2 | 2 | 11 |
| 2 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 19 | 3 | 5 | 1 |
| 3 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 3 | 5 | 1 |
| 3 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 |

Randomize

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 101 | 2 | **3** | **1** | 1 | **1** | **1** | 2 | 2 | **5** | **1** |
| **3** | 1 | **3** | 2 | **1** | 1 | **1** | **1** | **19** | **3** | 2 | **3** |
| **3** | 1 | 3 | 3 | 1 | 1 | 1 | 1 | **3** | 3 | **2** | 1 |
| **2** | 1 | **2** | **2** | **3** | 1 | **29** | **3** | 1 | **2** | **1** | **11** |
| **2** | 1 | 3 | 3 | **37** | 1 | **3** | **37** | 1 | 3 | **5** | 1 |

Generate the key

Depth: 5

Bits: 7

Key:

..... ,,,,,,, ........ → .....,,,,,,,........

| Depth | Bits | Bits +1

to finish...