Solution to Homework 39

Problem. What can you say about the Kolmogorov complexity of the string 011011... in which the sequence 011 is repeated 2022 times?

Solution. This string $s$ can be generated by the following program:

```java
for(i = 1; i <= 2022; i++)
    System.out.print("011");
```

That has length 49. So, the Kolmogorov complexity of this does not exceed 49: $K(s) \leq 49$. 