

Knuth-Morris-Pratt algorithm in Java → Non-overlapping occurrences of a pattern

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Code Challenge — Write a program

Write a program that finds all non-overlapping occurrences of a pattern in a text.

Input: two strings, a pattern *p* and a text *t*.

Output: the first line should contain the number of non-overlapping occurrences of the pattern in the text. The second line should contain the index of these occurrences separated by space.

For two overlapping substrings, consider as occurrence the one that has the least starting index. (it is supposed that a searching starts from the beginning of the text).

Sample Input 1:

aba
ababababa

Sample Output 1:

2
0 4

Sample Input 2:

aba
abacabad

Sample Output 2:

2
0 4

Code Editor

IDE



- ✓ IDE is responding IntelliJ IDEA 2019.3
- ✓ Plugin is responding 3.2-2019.3-3686

✓ Correct

Thanks for your feedback!

Write here how we could improve this problem

Continue

Time limit: 3 seconds Memory limit: 256 MB

Comments (6)

Hints (0)

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Solutions (0)

Share something, Sergey Kubatko

Sort by: Last posted ▼G **Gurhan** [3 months ago](#) [Report](#)

Failed test #10. Wrong answer

Why do I get fail in this? I downloaded the test case and run it and returned an output but since input is large, I don't know what it should be? For the downloaded test cases, the expected result should also be written so that I can check my result with that. Now, it gives only the test case but not expected result. Please help me on this. Thanks.

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U2 **User 283691** [5 months ago](#) [Report](#)

How exactly should I process empty strings? This is driving me crazy

♡ 0 [Reply](#)

MT **Mohammad Tahawi** [5 months ago](#) [Report](#)

changing one line of code in KMPSearch is enough

plus adding checks for corners cases (empty pattern, empty text)

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A **andioz** [6 months ago](#) [Report](#)

I solved this one only by trying thing out without knowing the direction. Failure feedback should be improved.

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A **andioz** [6 months ago](#) [Report](#)

Regarding time limit exceeded and other pitfalls like not showing why test fails: I think the design of the challenges is misguided in this way, this problems are more demotivating than encouraging. And it would be nice to have more interconnection to the IDE for such kind of code, which takes more than 50 lines.

♡ 0 [Reply](#)

GT **Gábor Tusjak** [7 months ago](#) [Report](#)

"Failed test #14. Time limit exceeded"

What is test #14? What is it unavailable after 24 hours? It is hard only because the you cannot see the tests.

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