Logo

STUDENT REPORT

DETAILS

Name

MD ZAMEER

Roll Number

KUB23CSE070

EXPERIMENT

Title

BEST GRADE

Description

Andrew has a string N consisting of lowercase English letters representing respective grades of N students in his class. His grade is at Pth index. He can swap any two adjacent grades.

Your task is to help Andrew find and return a string value, representing maximized grade by bringing lexicographically smallest character on the Pth index after doing at most K swaps

Note: use 1 based indexing.

Input format:

(i) The first line contains the string s.

(ii) The second line contains the integer P.

(iii) The third line contains the integer K.

Sample Input:

abcdefg

3

2

Sample Output:

a

Source Code:

```python
def maximize_grade(s, P, K):
    P -= 1

    end_index = min(P + K + 1, len(s))
    substring = s[P:end_index]

    smallest_char = min(substring)
    smallest_char_index = s.index(smallest_char, P, end_index)

    swaps_needed = smallest_char_index - P

    if swaps_needed <= K:
        char_list = list(s)

        for i in range(smallest_char_index, P, -1):
            char_list[i], char_list[i - 1] = char_list[i - 1], char_list[i]

        return ''.join(char_list)

    return s

s = input().strip()
P = int(input().strip())
K = int(input().strip())

output = maximize_grade(s, P, K)
print(output)
```

RESULT

0 / 5 Test Cases Passed | 0 %