Logo

STUDENT REPORT

DETAILS

Name

UMME SUMMAIYA

Roll Number

KUB23CSE150

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:

```
def maximize_grade(s, p, k):
    s = list(s)
    smallest = min(s[max(0, p-1-k):p])
    for i in range(max(0, p-1-k),p):
        if s[i] == smallest:
            s[p-1], s[i] =s[i],s[p-1]
            break
    return s[p-1]
s = input()
p = int(input())
k = int(input())
print(maximize_grade(s, p, k))

This code:
 1. converts the string to a list.
 2. Find the smallest character within k swaps.
 3. swaps the  smallest character to the  pth index.
 4. return the maximized grade.
```

RESULT

0 / 5 Test Cases Passed | 0 %