Logo

STUDENT REPORT

DETAILS

Name

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Roll Number

23D21A05H4

EXPERIMENT

Title

NEAREST CORNER

Description

Bruce is a newly hired employee at a company. The Office Management Department has given him a desk number, which is stored in string S. He has also been handed a string array A. containing all the N office desk numbers.

Array A also includes the symbol"-", which stands for the gap in the sitting arrangement. Comer seats are those that are on either side of the gap. Your task is to help Bruce find and retum an integer value. representing how far he is from the nearest corner seat. Return 0, if he is in the corner seat.

Note:

There will always be at least one gap in the string array A

Desk number is always in a format of a number first followed by an English letter in uppercase

Assume 0 - based indexing

Input Specification:

A string S. representing Bruce's newly assigned desk number.

Second line containing space seperated strings showing the seat positions and gaps

Sample input:

3C

1A 2B - 3C 4D

Sample Output:

0

Source Code:

```
def find_nearest_corner_dist(S,A):
    corner_seats = set()
    for i in range(1,len(A)-1):
        if A[i] == "-":
            if i-1 >=0 and A[i-1] != "-":
                corner_seats.add(i-1)
            if i+1 < len(A) and A[i+1] != "-":
                corner_seats.add(i+1)
    bruce_index = A.index(S)
    min_dist = float('inf')
    for corner in corner_seats:
        min_dist = min(min_dist,abs(bruce_index - corn
er))
    return min_dist
S = input()
A = input().split()
print(find_nearest_corner_dist(S,A))
```

RESULT

5 / 5 Test Cases Passed | 100 %