DP-S017 (E046)

Solved Challenges **0/1**

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Minimum Jumps to Reach End

ID:11158 **Solved By 572 Users**

There are **N** stones arranged in a row. Each stone has a positive value, which indicates the maximum number of stones a person can cross in one jump from it. A person always starts from the first stone and he wants to reach the final or last stone. The program must accept N integers representing the N stones as the input. The program must print the minimum number of jumps that the person can reach to the last stone as the output.

Boundary Condition(s):
1 <= N <= 10^5
1 <= Each integer value <= 10^3

Input Format:
The first line contains N.
The second line contains N integers separated by a space.

Output Format:
The first line contains the minimum number of jumps that the person can reach to the last stone.

Example Input/Output 1:
Input:
5
2 3 1 1 4

Output:
2

Explanation:
Here the minimum number of jumps that the person can reach to the last stone is **2**.
In the 1st jump, he can jump from 2 to 3 (i.e., from the 1st stone to the 2nd stone).
In the 2nd jump, he can jump from 3 to 4 (i.e., from the 2nd stone to the 5th stone).

Example Input/Output 2:
Input:
14
1 3 5 3 3 1 1 1 1 1 1 1 1 4

Output:
9

Max Execution Time Limit: 500 millisecs

Ambiance

Python3 (3.x)

Reset

```
N = int(input())
if(N==1):
    print(0)
    exit(0)
arr = list(map(int,input().strip().split()))
jumps = 1
maxReachIndex=arr[0]
steps=arr[0]

for index in range(1,N):
    if(index==N-1):
        break
    if((arr[index]+index)>maxReachIndex):
        maxReachIndex = arr[index]+index
    steps-=1
    if(steps==0):
        jumps+=1
        steps=maxReachIndex-index
print(jumps)
```

Code did not pass the execution

TestCase ID: 64394

Input:

```
14
1 3 5 3 3 1 1 1 1 1 1 1 1 4
```

Expected Output:

```
9
```

Your Program Output:

```
13
```

Save Run

Run with a custom test case (Input/Output)