

Squid Game Challenge

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The Staircase of Doom:

Each step of the staircase has a cost of entry, given in the integer array cost. The cost[i] represents the price you must pay to step onto the i-th stair.

Rules : Once you pay the cost at a step, you may move one step or two steps forward. You may begin at either step 0 or step 1. Your mission is to reach the top of the staircase while paying the minimum total cost. Can you calculate the minimum cost to survive and claim victory?

```
#include <stdio.h>
#include <stdlib.h>

int minCostClimbingStairs(int cost[], int n) {
    // Write your code here
    return 0;
}

int main() {
    int n;
    scanf("%d", &n);
    int *cost = (int *)malloc(n * sizeof(int));
    for (int i = 0; i < n; i++) {
        scanf("%d", &cost[i]);
    }

    int result = minCostClimbingStairs(cost, n);
    printf("%d\n", result);
    free(cost);
    return 0;
}
```

Input Format

1st line - 'N' size of array cost

2nd line - 'cost' array with N space separated positive integers

Constraints

$2 \leq N \leq 1000$

$1 \leq \text{cost}[i] \leq 1000$

Output Format

Single integer: minimum cost to reach the top of the staircase

Sample Input 0

```
3
10 15 20
```

Sample Output 0

```
15
```

Explanation 0

You will start at index 1.
Pay 15 and climb two steps to reach the top.
The total cost is 15.

Sample Input 1

```
10
1 100 1 1 1 100 1 1 100 1
```

Sample Output 1

```
6
```

Explanation 1

You will start at index 0.
Pay 1 and climb two steps to reach index 2.
Pay 1 and climb two steps to reach index 4.
Pay 1 and climb two steps to reach index 6.
Pay 1 and climb one step to reach index 7.
Pay 1 and climb two steps to reach index 9.
Pay 1 and climb one step to reach the top.
The total cost is 6.

[f](#) [t](#) [in](#)

Submissions: 63

Max Score: 10

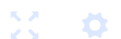
Difficulty: Medium

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C



```
1 #include <stdio.h>
2 #include <string.h>
3 #include <math.h>
4 #include <stdlib.h>
5
6 int main() {
7
8     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
9     return 0;
10 }
11
```

Line: 1 Col: 1

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