



Students Marks Sum ★

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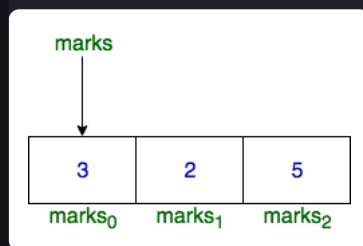


You are given an array of integers, **marks**, denoting the marks scored by students in a class.

- The alternating elements **marks₀**, **marks₂**, **marks₄** and so on denote the marks of boys.
- Similarly, **marks₁**, **marks₃**, **marks₅** and so on denote the marks of girls.

The array name, **marks**, works as a pointer which stores the base address of that array. In other words, **marks** contains the address where **marks₀** is stored in the memory.

For example, let **marks** = [3, 2, 5] and **marks** stores 0x7fff9575c05f. Then, 0x7fff9575c05f is the memory address of **marks₀**.



Function Description

Complete the function, marks_summation in the editor below.

marks_summation has the following parameters:

- int marks[number_of_students]: the marks for each student
- int number_of_students: the size of marks[]
- char gender: either 'g' or 'b'

Returns

- int: the sum of marks for boys if **gender** = **b**, or of marks of girls if **gender** = **g**

Input Format

- The first line contains **number_of_students**, denoting the number of students in the class, hence the number of elements in **marks**.
- Each of the **number_of_students** subsequent lines contains **marks_i**.
- The next line contains **gender**.

Constraints

- $1 \leq \text{number_of_students} \leq 10^3$
- $1 \leq \text{marks}_i \leq 10^3$ (where $0 \leq i < \text{number_of_students}$)
- **gender** = **g** or **b**

Sample Input 0

```
3
3
2
5
b
```

Sample Output 0

```
8
```

Explanation 0

marks = [3, 2, 5] and **gender** = **b**.

So, $marks_0 + marks_2 = 3 + 5 = 8$.

Sample Input 1

5
1
2
3
4
5
9

Sample Output 1

6

Explanation 1

$marks = [1, 2, 3, 4, 5]$ and $gender = g$

So, $sum = marks_1 + marks_3 = 2 + 5 = 8$.

Sample Input 2

1
5
9

Sample Output 2

0

Explanation 2

$marks = [5]$ and $gender = g$

Here, $marks_1$ does not exist. So, $sum = 0$.

Change Theme Language: C



```
1 #include <stdio.h>
2 #include <string.h>
```

Solution.c 1 of 2 problems

```
3 #include <math.h>
4 #include <stdlib.h>
5
6 //Complete the following function.
7
8 int marks_summation(int* marks, int number_of_students, char gender) {
9
10     int sum = 0;
11
12
13     if (gender == 'b') {
14         for (int i = 0; i < number_of_students; i += 2) {
15             sum += marks[i];
16         }
17     }
18
19     else if (gender == 'g') {
20         for (int i = 1; i < number_of_students; i += 2) {
21             sum += marks[i];
22         }
23     }
```

Line: 2 Col: 1

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