

Dynamic Array in C ★





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Snow Howler is the librarian at the central library of the city of HuskyLand. He must handle requests which come in the following forms:

1 x y : Insert a book with $m{y}$ pages at the end of the $m{x}^{m{th}}$ shelf.

2 x y : Print the number of pages in the $m{y^{th}}$ book on the $m{x^{th}}$ shelf.

3 x : Print the number of books on the $oldsymbol{x^{th}}$ shelf.

Snow Howler has got an assistant, Oshie, provided by the Department of Education. Although inexperienced, Oshie can handle all of the queries of types 2 and 3.

Help Snow Howler deal with all the queries of type 1.

Oshie has used two arrays:

```
int* total_number_of_books;
/*
 * This stores the total number of books on each shelf.
 */
int** total_number_of_pages;
/*
 * This stores the total number of pages in each book of each shelf.
 * The rows represent the shelves and the columns represent the books.
 */
```

Input Format

The first line contains an integer *total_number_of_shelves*, the number of shelves in the library.

The second line contains an integer *total_number_of_queries*, the number of requests.

Each of the following total_number_of_queries lines contains a request in one of the three specified formats.

Constraints

- $1 \le total_number_of_shelves \le 10^5$
- $1 \le total_number_of_queries \le 10^5$
- For each query of the second type, it is guaranteed that a book is present on the $m{x^{th}}$ shelf at $m{y^{th}}$ index.
- $0 \le x < total_number_of_shelves$



- Both the shelves and the books are numbered starting from 0.
- Maximum number of books per shelf < 1100.

Output Format

Write the logic for the requests of type 1. The logic for requests of types 2 and 3 are provided.

Sample Input 0

```
5
5
1 0 15
1 0 20
1 2 78
2 2 0
3 0
```

Sample Output 0

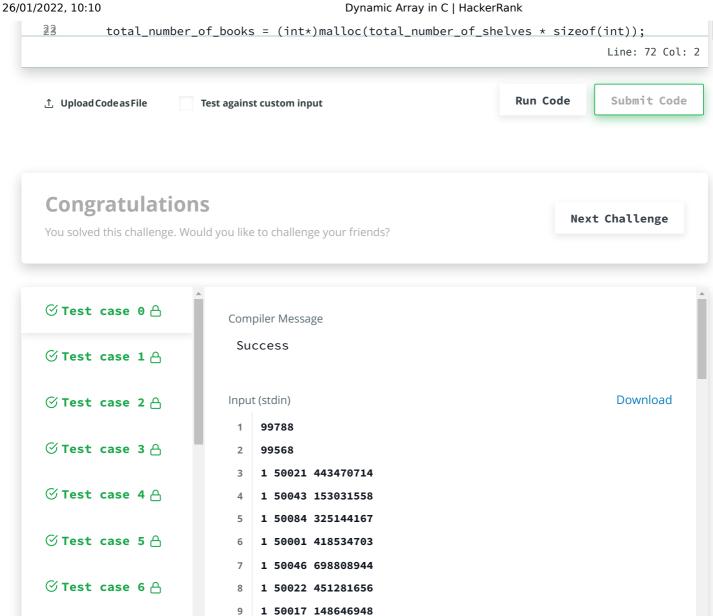
78 2

Explanation 0

There are $\bf 5$ shelves and $\bf 5$ requests, or queries.

- 1 Place a 15 page book at the end of shelf 0.
- 2 Place a **20** page book at the end of shelf **0**.
- 3 Place a 78 page book at the end of shelf 2.
- 4 The number of pages in the $\mathbf{0}^{th}$ book on the $\mathbf{2}^{nd}$ shelf is 78.
- 5 The number of books on the $\mathbf{0}^{th}$ shelf is 2.

```
Change Theme Language: C
                                                                               (O)
 1
    #include <stdio.h>
 2
    #include <stdlib.h>
 3
 4
    * This stores the total number of books in each shelf.
 5
 6
     */
7
    int* total_number_of_books;
8
     /*
9
10
     * This stores the total number of pages in each book of each shelf.
     * The rows represent the shelves and the columns represent the books.
11
12
     */
13
    int** total_number_of_pages;
14
15
    int main()
16
         int total_number_of_shelves;
17
         scanf("%d", &total_number_of_shelves);
18
19
20
         int total_number_of_queries;
21
         scanf("%d", &total_number_of_queries);
```



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