**1. Double on Match**

Given an array of long integers (*arr*) and a number (*num*). Iterate through the elements in *arr* and double the value of *num* whenever an element equals *num*. *arr* can be reordered before the iteration to maximize the value of *num*. Find the maximum possible value of *num*.

**Example**

*arr = [1, 2, 4, 11, 12, 8]*

*num = 2*

Iterating through *arr*:

arr num

2

1 2

2 4

4 8

11 8

12 8

8 16

The maximal value of *num = 16.* Note that *arr* could have been reordered before iterating.

**Function Description**

Complete the function *doubleSize* in the editor below.

doubleSize has the following parameter(s):

*long int arr[n]:*  an array of long integers

*long int* *num:* the base long integer

**Returns:**

*long int:* the maximal value of *num*

**Constraints**

* *1 ≤ n ≤ 106*
* *0 ≤ arr[i] ≤ 1016*
* *0 ≤ num ≤ 104*

Input Format for Custom Testing

Input from stdin will be processed as follows and passed to the function.

The first line contains an integer *n*, the size of the array *arr*.

Each of the next *n* lines contains an integer *arr[i]* where *0 ≤ i < n*.

The last line contains a long integer, *num*.

Sample Case 0

**Sample Input 0**

STDIN     Function

-----     --------

5    →    arr[] size n = 5

1    →    arr = [1, 2, 3, 1, 2]

2

3

1

2

1    →    num = 1

**Sample Output 0**

4

**Explanation 0**

Rearrange *arr* to *arr = {1, 1, 2, 2, 3}.*

arr num

1

1 2

1 2

2 4

2 4

3 4

Sample Case 1Sample Case 2

Language

C#



Autocomplete Ready

More

1

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

using System.CodeDom.Compiler;

class Result

{

    /\*

     \* Complete the 'doubleSize' function below.

     \*

     \* The function is expected to return a LONG\_INTEGER.

     \* The function accepts following parameters:

     \*  1. LONG\_INTEGER\_ARRAY arr

     \*  2. LONG\_INTEGER b

     \*/

    public static long doubleSize(List<long> arr, long b)

    {

    }

}

class Solution



Line: 16 Col: 1

Test Results

Custom Input

Run Code

Run Tests

Submit

**Copy/paste is not available in this region. You can copy sample input/output and you can paste code in the editor**

Sample Case 1

**Sample Input 1**

STDIN     Function

-----     --------

3    →    arr[] size n = 3

1    →    arr = [1, 1, 1]

1

1

1    →    num = 1

**Sample Output 1**

2

**Explanation 1**

arr num

1

1 2

1 2

1 2

Sample Case 2

**Sample Input 2**

STDIN     Function

-----     --------

5    →    arr[] size n = 5

2    →    arr = [2, 5, 4, 6, 8]

5

4

6

8

2    →    num = 2

**Sample Output 2**

16

**Explanation 2**

Rearrange *arr* to *arr = {2, 4, 5, 6, 8}.*

arr num

2

2 4

4 8

5 8

6 8

8 16

Language

C#



Autocomplete Ready

More

1

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

using System.CodeDom.Compiler;

class Result

{

    /\*

     \* Complete the 'doubleSize' function below.

     \*

     \* The function is expected to return a LONG\_INTEGER.

     \* The function accepts following parameters:

     \*  1. LONG\_INTEGER\_ARRAY arr

     \*  2. LONG\_INTEGER b

     \*/

    public static long doubleSize(List<long> arr, long b)

    {

    }

}

class Solution



Line: 16 Col: 1

Test Results

Custom Input

Run Code

Run Tests

Submit