Ruby Necklace

[Instructions](javascript:void(0);) [Help](javascript:void(0);)

Time:

27:59/04:00:00

* [**Problem Statement**](https://www.techgig.com/codegladiators/question/Z1JXRTZ6Yk5qTS9vY2ZSQkVuWFBZbzRSMGxMYkJGaU83N0pFWEZ1ZjB6R0pNS1RaaG9DNHFwZ1h5cVpMZkkvbg==/1&msg_type=1#domain-problem)
* [Discussions](https://www.techgig.com/codegladiators/question/Z1JXRTZ6Yk5qTS9vY2ZSQkVuWFBZbzRSMGxMYkJGaU83N0pFWEZ1ZjB6R0pNS1RaaG9DNHFwZ1h5cVpMZkkvbg==/1&msg_type=1#domain-comments)
* [My Submissions](https://www.techgig.com/codegladiators/question/Z1JXRTZ6Yk5qTS9vY2ZSQkVuWFBZbzRSMGxMYkJGaU83N0pFWEZ1ZjB6R0pNS1RaaG9DNHFwZ1h5cVpMZkkvbg==/1&msg_type=1#domain-submission)

Ruby Necklace (100 Marks)

It is the wedding day of Sanchi, the beautiful princess of Byteland. Her fiance Krishna is planning to gift her an awesome ruby necklace. Krishna has currently **b** -blue rubies, **g** -green rubies,**r-**red rubies and **y**-yellow rubies. He has to arrange the rubies next to each other in a **straight**line to make the necklace. But, there are a couple of rules to be followed while making this necklace:

* A blue ruby should be followed by either a blue ruby or a red ruby
* A green ruby should be followed by either a green ruby or a yellow ruby
* A red ruby should be followed by either a green ruby or a yellow ruby
* A yellow ruby should be followed by either a blue ruby or a red ruby
* If it is possible, we should always start a necklace with a blue or a red ruby

Can you tell what is the maximum possible length of the necklace that Krishna can make. The length of a necklace is the number of rubies in it.

**Input Format**

The first line contains an integer representing b.  
The second line contains an integer representing r.  
The third line contains an integer representing y.  
The fourth line contains an integer representing g.

**Constraints**

0 <= b, r, y, g <= 2000  
At least one of b, r, y, g is greater than 0

**Output Format**

A single integer which is the answer to the problem.

**Sample TestCase 1**

Input

1

1

1

0

Output

3

Explanation

One such necklace is shown below.

**Sample TestCase 2**

Input

1

1

1

1

Output

4

Explanation

**Sample TestCase 3**

Input

989

147

0

0

Output

990

[Sample Problem with Solution](https://www.techgig.com/platform-faq)





1

2

3

4

5

6

7

/\* Read input from STDIN. Print your

    output to STDOUT\*/

#include<stdio.h>

int main(int argc, char \*a[])

{

//Write code here

}

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