



Bottles

Problem Code: **MSTC02**

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You have 3 bottles and 3 bottle openers. You know the time necessary to open each bottle using each opener. Find the minimum total time for opening all 3 bottles.

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Input

The input consists of 3 lines, each containing 3 integers. The jth number on the ith line is the time necessary to open bottle i using the opener j.

Output

Print the answer on the first line.

Constraints

- $1 \leq \text{Time} \leq 100$
- You can open one bottle at a time

Example

Input:

```
5 4 3
7 6 11
7 9 2
```

Output:

```
11
```

Input:

```
1 2 2
2 1 2
2 2 1
```

Output:

```
3
```

Input:

```
3 2 7
1 5 8
3 3 10
```

Output:

```
6
```

Explanation

Example case 1.Use bottle openers 3, 2 and 3

Example case 2.Use bottle opener i for bottle i

Example case 3.Use opener 2 for bottle 1, opener 1 for bottle 2 and opener 1 or 2 for bottle 3

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Time Limit: 1 secs
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