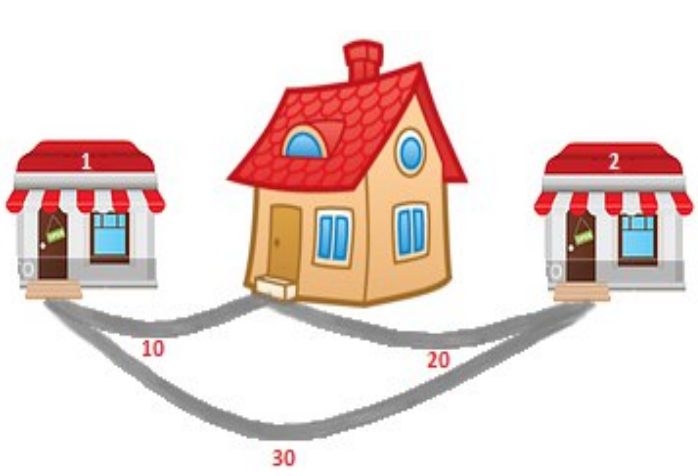
A. Patrick and Shopping

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

Today Patrick waits for a visit from his friend Spongebob. To prepare for the visit, Patrick needs to buy some goodies in two stores located near his house. There is a d_1 meter long road between his house and the first shop and a d_2 meter long road between his house and the second shop. Also, there is a road of length d_3 directly connecting these two shops to each other. Help Patrick calculate the minimum distance that he needs to walk in order to go to both shops and return to his house.



Patrick always starts at his house. He should visit both shops moving only along the three existing roads and return back to his house. He doesn't mind visiting the same shop or passing the same road multiple times. The only goal is to minimize the total distance traveled.

Input

The first line of the input contains three integers d_1, d_2, d_3 ($1 \le d_1, d_2, d_3 \le 10^8$) — the lengths of the paths.

- d_1 is the length of the path connecting Patrick's house and the first shop;
- d_2 is the length of the path connecting Patrick's house and the second shop;
- d_3 is the length of the path connecting both shops.

Output

Print the minimum distance that Patrick will have to walk in order to visit both shops and return to his house.

Examples

input	Copy
10 20 30	

output	Copy
60	

input	Copy
1 1 5	

output	Copy
4	

Note

The first sample is shown on the picture in the problem statement. One of the optimal routes is: house → first shop → second shop → house.

In the second sample one of the optimal routes is: house → first shop → house → second shop → house.

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Start virtual contest

→ Submit?

Language: GNU G++20 11.2.0 (64 bit, w

Choose file: Choose File No file chosen

Submit

→ Last submissions

Submission	Time	Verdict
216039997	Jul/28/2023 07:28	Accepted
215850159	Jul/27/2023 12:54	Accepted
215848596	Jul/27/2023 12:41	Wrong answer on test 3