Problem M. Three Suitcases

Time limit: 1 second
Memory limit: 512 megabytes

When Katya goes on a trip, she always takes three suitcases with her. She packs all her clothes in first, which weighs x kilograms. In the second, she packs cosmetics weighing y kilograms. And in the third suitcase, she packs shoes weighing z kilograms.

Katya checked the airline's website for baggage fees in advance. If she checks in the suitcases with a total weight of less than 5 kilograms, the cost will be a rubles. If the weight is 5 or more but less than 10 kilograms, the cost will be b rubles. And if the weight is 10 kilograms or more, the price will be c rubles.

Help Katya send all the suitcases and pay as little as possible.

Input

The first line contains the number x ($1 \le x \le 10$)—the weight of the first suitcase. The second line contains the number y ($1 \le y \le 10$)—the weight of the second suitcase. The third line contains the number z ($1 \le z \le 10$)—the weight of the third suitcase. The fourth line contains the number a ($1 \le a \le 100$)—the cost for sending less 5 kilograms. The fifth line contains the number b ($1 \le b \le 100$)—the cost for sending from 5 kilograms inclusive to less than 10 kilograms. The sixth line contains the number c ($1 \le c \le 100$)—the cost for sending 10 kilograms or more.

Output

Print the minimum cost of sending the three suitcases.

Example

standard input	standard output
2 3 5 10 15 25	25