problem

The rules of blackjack, the most popular game in casinos, are fairly easy. It is a game in which the sum of the cards is made as large as possible within the limit that the sum of the cards does not exceed 21. Blackjack has different rules for each casino.

Kim Jeong-in, the best blackjack master in Korea, is trying to play with Sang-geun and Chang-yeong by creating a new blackjack rule.

In Kim's version of blackjack, each card has a positive integer written on it. Then, the dealer puts all N cards face up on the floor. The dealer then calls out the number M out loud.

Now the player has to choose 3 cards out of N cards within a limited time. Since this is a blackjack variant, the sum of the cards chosen by the players must be as close to M as possible without exceeding M.

Given the number written on N cards, find and print the sum of the 3 cards closest to M without exceeding M.

input

The first line gives the number of cards N (3 ≤ N ≤ 100) and M (10 ≤ M ≤ 300,000). The second line gives the number written on the card, which is a positive integer not exceeding 100,000.

It is given as an input only if it can find 3 cards whose sum does not exceed M.

Print

On the first line, print the sum of 3 cards as close as possible to M without exceeding M.

example input 1

5 21

5 6 7 8 9

example output 1

21

example input 2

10 500

93 181 245 214 315 36 185 138 216 295

example output 2

4