Problem G. At Most 3 (Judge ver.)

Time limit 2000 ms
Mem limit 1048576 kB

Problem Statement

There are N weights called Weight 1, Weight 2, ..., Weight N. Weight i has a mass of A_i.
Let us say a positive integer n is a **good integer** if the following condition is satisfied:

- We can choose **at most** 3 different weights so that they have a total mass of n.

How many positive integers less than or equal to W are good integers?

Constraints

- $1 \leq N \leq 300$
- $1 \leq W \leq 10^6$
- $1 \leq A_i \leq 10^6$
- All values in input are integers.

Input

Input is given from Standard Input in the following format:

```
N W
A_1 A_2 ... A_N
```

Output

Print the answer.

Sample 1

Input	Output
2 10 1 3	3

If we choose only Weight 1, it has a total mass of 1, so 1 is a good integer.
If we choose only Weight 2, it has a total mass of 3, so 3 is a good integer.
If we choose Weights 1 and 2, they have a total mass of 4, so 4 is a good integer.
No other integer is a good integer. Also, all of 1, 3, and 4 are integers less than or equal to W.
Therefore, the answer is 3.

Sample 2

Input	Output
2 1 2 3	0

There are no good integers less than or equal to W.

Sample 3

Input	Output
4 12 3 3 3 3	3

There are 3 good integers: 3, 6, and 9.
For example, if we choose Weights 1, 2, and 3, they have a total mass of 9, so 9 is a good integer.
Note that 12 is **not** a good integer.

Sample 4

Input	Output
7 251 202 20 5 1 4 2 100	48