

Bugatti

time limit per test: 1 second (5 seconds for Python)

memory limit per test: 256 megabytes

input: standard input

output: standard output

points: 100 · problem code: bugatti · author: jbroeksteeg

After becoming CEO of Hoptiver, Andy is now a millionaire! Unsure what to do with all his newfound wealth, Andy decides to buy a Bugatti like his favourite influencer.

However, in his infinite wealth Andy only owns banknotes worth multiples of million dollars. Andy wonders, with how many different combinations of his n denominations of bank notes could he buy a Bugatti of cost k million dollars.

Input Format

The input will consist of two lines. The first line has two space-separated integers, n and k . The following line consists of n integers, the i th of which represents the value of his i th type of bank note, in millions of dollars. **These values will be distinct.**

Output Format

The output should consist of a single integer, representing the number of combinations. Since there could be many combinations, output this value **modulo $1e9+7$** .

Sample Input

```
3 5
1 2 3
```

Sample Output

```
5
```

Sample Explanation

The combinations that sum to 5 million dollars are $1 + 1 + 1 + 1 + 1$, $1 + 1 + 1 + 2$, $1 + 1 + 3$, $1 + 2 + 2$ and $2 + 3$.

Constraints

$$1 \leq n \leq 50$$

$1 \leq a[i] \leq 50$. That is, the value of each bank note is between 1 and 50 million dollars.

$$1 \leq k \leq 1e5$$