Simon has *N* cards. On the i^{th} (1<=i<=N) card is written an integer x_i. He is selecting one or more cards from these *N* cards, so that the average of the integers written on the selected cards is exactly *A*. In how many ways can he make his selection?

Input Format

Given std input string as follows:

- *N A*
- X_1 X_2 ... X_N

Constraints

- 1<=N<=50
- 1<=A<=50
- 1<=xi<=50
- *N*, *A*, x_i are integers.

Output Format

Print the number of ways to select cards such that the average of the written integers is exactly *A*.

Sample Input 0

```
4 8
7 9 8 9
```

Sample Output 0

```
5
```

Explanation 0

- The following are the 5 ways to select cards such that the average is 8:

- Select the 3rd card.
- Select the 1st and 2nd cards.
- Select the 1st and 4th cards.
- Select the 1st, 2nd and 3rd cards.
- Select the 1st, 3rd and 4th cards.
- The answer may not fit into a 32-bit integer.