## Problem L. 5

| Input file: | standard input |
| :--- | :--- |
| Output file: | standard output |
| Time limit: | 5 seconds |
| Memory limit: | 555 mebibytes |

You are given an array $a$ of length $n$ consisting of non-negative integers. Calculate the number of pairs $(k, T)$ such that there exists a subsequence of $a$ of length $k$ whose sum is equal to $T$.
Just kidding, this is too general. Suppose the sum of elements of $a$ is equal to $S$, then it is guaranteed that $a$ has at least $S / 5$ elements equal to 1 .

## Input

The first line contains two positive integers $n$ and $S\left(1 \leq n, S \leq 2 \cdot 10^{5}\right)$ - the number of elements in $a$ and their sum.
The second line contains the array $a_{1}, a_{2}, \ldots, a_{n}\left(0 \leq a_{i} \leq S\right)$. It is guaranteed that $\sum_{i=1}^{n} a_{i}=S$ and at least $S / 5$ elements of $a$ are equal to 1 .

## Output

Print the number of pairs $(k, T)$ such that there exists a subsequence of $a$ of length $k$ whose sum is equal to $T$.

## Examples

| standard input | standard output |
| :---: | :---: |
| $\begin{array}{llllllll} \hline 7 & 9 & & & & & \\ 0 & 0 & 0 & 1 & 1 & 2 & 5 \end{array}$ | 42 |
| $\begin{array}{llllllllll} 10 & 3 & & & & & & & \\ 9 & 9 & 8 & 1 & 1 & 1 & 1 & 1 & 1 & 1 \end{array}$ | 48 |
| $\begin{array}{lllllllll} \hline 10 & 14 & & & & & & \\ 2 & 4 & 4 & 1 & 0 & 1 & 0 & 1 & 0 \end{array} 1$ | 81 |
| $\begin{array}{llllllllll} 10 & 14 & & & & & & \\ 3 & 5 & 3 & 0 & 1 & 0 & 1 & 0 & 1 & 0 \end{array}$ | 87 |

