uva Dnline Judge

## 10105 Polynomial coefficients

The problem is to calculate the coefficients in expansion of polynomial $\left(x_{1}+x_{2}+\ldots+x_{k}\right)^{n}$.

## Input

The input will consist of a set of pairs of lines. The first line of the pair consists of two integers $n$ and $k$ separated with space ( $0<K, N<13$ ). This integers define the power of the polynomial and the amount of the variables. The second line in each pair consists of $k$ non-negative integers $n_{1}, \ldots, n_{k}$, where $n_{1}+\ldots+n_{k}=n$.

## Output

For each input pair of lines the output line should consist one integer, the coefficient by the monomial $x_{1}^{n_{1}} x_{2}^{n_{2}} \ldots x_{k}^{n_{k}}$ in expansion of the polynomial $\left(x_{1}+x_{2}+\ldots+x_{k}\right)^{n}$.

## Sample Input

22
11
212
100000000010

## Sample Output

2
2

