1. Ramesh has an Aquarium with **N** special Ameoba. Each has a strength index **Ai** and produces **Ai-1** new special Amoeba after each second. The strength of each child will be floor(Ai/2). Upon performing this operation the strength of the parent amoeba will also become floor(Ai/2). When the strength of an amoeba becomes 0 it becomes immortal and produces no more children. Ramesh runs his experiment for M seconds. Print the total number of Amoeba left in the tank after **M** seconds.

**Input Format**

The first line contains two lines N and M The second line contains N space separated integers the strength of the ameoba at the start.

**Constraints**

1<=N<=20 1<=M<=20 1<=Ai<=20

**Output Format**

Print a single integer the final number ameoba left after M seconds

**Sample Input 0**

1 4

10

**Sample Output 0**

100

**Explanation 0**

We see that there is one ameoba of strength 10 After 1 second there will be 10 ameoba of strength 5 After 2 seconds there will be 50 ameoba of strength 2 After 3 seconds there will be 100 ameoba of strength 1 After 4 seconds there will be 100 ameoba left this is the end of the experiment Hence we print 100 as the total number of ameoba left at the end of the experiment

Code:

#include <cmath>

#include <cstdio>

#include <vector>

#include <iostream>

#include <algorithm>

using namespace std;

int main() {

int n,m,i,j,s;

int no,c=0;

cin>>n>>m;

int a[n];

for(i=0;i<n;i++)

{

cin>>a[i];

}

for(i=0;i<n;i++)

{ s=a[i];

no=1;

for(j=1;j<=m;j++)

{

no=(s\*no);

s=floor(s/2);

if(no==1)

break;

}

c+=no;

}

cout<<c;

return 0;

}