

The Iteration

Given a code as follows:

```
int main()
{
    int i,j,n,m,tc,nc,count;
    scanf("%d", &nc);
    while( nc-- )
    {
        scanf("%d %d",&n,&m);

        count=0;

        for(i=0;i<n;i++)
        {
            for(j=0;j<m;j++)
            {
                count++;
            }
        }

        printf("%d\n",count);
    }

    return 0;
}
```

You have to find how many times will the code run for given values of n and m.

Input

Input starts with an integer **T** (≤ 1000), denoting the number of test cases.

Each case contains two integers **n** ($1 \leq n \leq 10000$) and **m** ($1 \leq m \leq 10000$).

Output

For each case, print the number denoting how many times will the above code run.

The output will fit in a 32-bit integer.

Example

Input:

1

2 1

Output:

Case 1: 2