Furnishing

locked

by bachkarakash

Problem Submissions Leaderboard Discussions

Shubham wants to furnish the flooring of some rooms with marble tiles. The dimension of room is ***lxb*** which is different for each room. There are ***T*** number of rooms in his house. When he went to purchase tiles, he came to know that only square tiles are available in the market. And Shubham wants to furnish all the portion of the floor. He can purchase the tiles of only one type of dimension. Now help Shubham to find the number of tiles to be purchased with maximum dimensions for a given particular single room.

Input Format

The first line contains an integer ***T***. ***T*** lines follow. Each line contains two space separated integers ***l*** and ***b*** which denote length and breadth of the floor.

Constraints

1 <= *T* <= 1000

1 <= *l*, *b* <= 1000

Output Format

T lines, each containing an integer that denotes the number of squares of maximum size, when the floor is divided as per the given condition.

Sample Input 0

```
2
6 9
6 16
```

Sample Output 0

```
6
24
```

☆☆☆☆☆

More

Need Help? Get advice from the discussion forum for this challenge. Or check out the environments page

Current Buffer (saved locally, editable) C++

```
#include <iostream>
using namespace std;
int gcf(int,int);
int main()
{
    int i,t,k,l[100],b[100],a[100],x,y;
    cin>>t;
    k=t;
    while(t!=0)
    {
        for(i=0;i<t;i++)
    {
        cin>>l[i]>>b[i];
        x=l[i]*b[i];
        y=gcf(l[i],b[i]);
        a[i]=(x/(y*y));
    }
    t--;
    }
    for(int i=0;i<k;i++)
    {
        cout<<a[i]<<endl;
    }
}
int gcf (int n1, int n2)
{
    while(n1 != n2)
    {
        if(n1 > n2)
            n1 -= n2;
        else
            n2 -= n1;
    }
return n1;
}
```

Line: 1 Col: 1

Upload Code as File Test against custom input Run Code Submit Code