New Tablet

Ajinkya decided to buy a new tablet. His budget is B, so he cannot buy a tablet whose price is greater than B. Other than that, he only has one criterion — the area of the tablet's screen should be as large as possible. Of course, the screen of a tablet is always a rectangle.

Ajinkya has visited some tablet shops and listed all of his options. In total, there are N available tablets, numbered 1 through N. For each valid i, the i-th tablet has width Wi, height Hi and price Pi.

Help Ajinkya choose a tablet which he should buy and find the area of such a tablet's screen, or determine that he cannot buy any tablet.

Input

The first line of the input contains a single integer T denoting the number of test cases. The description of T test cases follows.

The first line of each test case contains two space-separated integers N and B.

N lines follow. For each i (1≤i≤N), the i-th of these lines contains three space-separated integers Wi, Hi and Pi.

Output

For each test case, print a single line. If Ajinkya cannot buy any tablet, it should contain the string "no tablet" (without quotes). Otherwise, it should contain a single integer — the maximum area of the screen of a tablet Ajinkya can buy.

Sample Input 1

3

36

344

557

525

26

368

549

1 10

5 5 10

Sample Output 1

```
12no tablet25
```

C Program

```
#include <stdio.h>
int main(void) {
       int tc,i,j,n,b;
       scanf("%d\n",&tc);
       while(tc--)
         scanf("%d %d",&n,&b);
         int a[n][3], area = 0;
                                      TalentBattle
         for(i=0;i<n;i++)
           for(j=0;j<3;j++)
           scanf("%d",&a[i][j]);
         }
         for(i=0;i<n;i++)
         {
           if(a[i][2] \le b \&\& (a[i][0] * a[i][1]) > = area)
           area = a[i][0] * a[i][1];
         }
         if(area==0)
          printf("no tablet\n");
         else
```

```
printf("%d\n",area);
      }
      return 0;
}
C++ Program
#include <iostream>
using namespace std;
int main() {
       int t;
       cin>>t;
       while(t--)
      {
                                   TalentBattle
         int n,b;
         cin>>n>>b;
         int max=-1;
         for(inti=0;i<n;i++)
         {
           int width, height, price;
           cin>>width>>height>>price;
           int area=width*height;
           if(price<=b)
```

{

}

if(max==-1)

}

if(area>max)

max=area;

```
cout<<"no tablet\n";
         else
         cout<<max<<"\n";
        }
       return 0;
}
Java
import java.util.*;
import java.lang.*;
import java.io.*;
class Main
{
       public static void main (String[] args) throws java.lang. Exception
               Scanner scanner = new Scanner (System.in);
    int t = scanner.nextInt();
    while (t-->0) {
      int n = scanner.nextInt();
      int b = scanner.nextInt();
      int size = 0;
      for (int j = 0; j < n; j++) {
        int w = scanner.nextInt();
        int h = scanner.nextInt();
        int p = scanner.nextInt();
        if (p \le b) {
          if (w * h > size) {
```

```
size = w * h;
         }
        }
      }
      if (size!=0){
        System.out.println(size);
      }else {
       System.out.println("no tablet");
      }
    }
}
                                      TalentBattle
Python
t=int(input())
for A in range(t):
 n,b=map(int,input().split(""))
  dict={}
 for x in range(n):
    w,h,i=map(int,input().split(""))
    dict[w*h]=i
  dd=sorted(dict)
  #print(dd)
 for x in range(len(dd)-1,-1,-1):
    m=dict[dd[x]]
    if m<=b:
      print(dd[x])
      break
```

else:

print("no tablet")

