1. **#include**<bits/stdc++.h>
2. **#define** for0(i,n) **for**(**int** i=0;i<n;i++)
3. **#define** rep(i,s,n) **for**(**int** i=s;i<n;i++)
4. **#define** sp <<**" "**<< **// giving space**
5. **#define** MOD 1000000007 **// for mod**
6. **#define** ll\_max 1000000000000000000
7. **#define** ll **long** **long**
8. **#define** ld **long** **double**
9. **#define** BOOST ios\_base::sync\_with\_stdio ( **false** ); cin.tie ( **nullptr** ); cout.tie ( **nullptr** );
10. **using** **namespace** std;
11. **// Vector**
12. **#define** vi **vector<int>** **//integer vector**
13. **#define** vll **vector<ll>**
14. **#define** pb push\_back **//vector element insertion**
15. **#define** pf push\_front
16. **#define** er(v,i) v.erase(v.begin()+i) **// erase ith element in a vector**
17. **#define** erng(v,x) v.erase(v.begin(),v.begin()+x) **// delete a range in array**
19. **//Stack**
20. **/\* stack<int> s; //declaring stack**
21. **s.push(1) // enter element in stack**
22. **s.top() //returns top element in stack**
23. **s.pop() //removes top element in stack**
24. **\*/**
25. **// pair**
26. **#define** pii pair<**int**,**int**> **//pair integers**
27. **#define** ff first
28. **#define** ss second
29. **#define** mp(a,b) make\_pair(a,b) **// entering pair element in vector(size not defined)**
31. **//Hashmap**
32. **/\* map<string,string> a; //declaration**
33. **a[“abc”]=”xyz”; // element entry in map;**
34. **gquiz1.insert(pair<int, int>(1, 40));**
35. **map<string,string>::iterator itr; //iterating map**
36. **for (itr = a.begin(); itr!=a.end(); itr++){**
37. **cout <<(\*itr).first << itr->second <<endl;**
38. **}**
39. **itr = companies.find("abc"); //finding element in map**
40. **cout << itz->second;**
42. **//\*/**

45. **int** main()
46. {
47. BOOST
48. **int** t;
49. cin>>t;
50. for0(o,t)
51. {
52. **int** n,x;
53. cin>>n>>x;
54. vi a(n);
55. **int** mx=0,z=0;
56. for0(i,n)
57. {
58. **int** u,v;
59. cin>>u>>v;
60. mx=max(u,mx);
61. z=max(u-v,z);
62. }
63. x=x-mx;
64. **int** cnt=1;
65. **if**(x>0&&z)
66. {
67. **if**(x%z)cnt=cnt+x/z+1;
68. **else** cnt=cnt+x/z;
69. }
70. **else** **if**(x>0)cnt=-1;
71. cout<<cnt<<**"\n"**;
72. }
73. }