

Submission

ID	DATE	PROBLEM	STATUS	CPU	LANG
	TEST CASES				
8173144	15:40:02	Watering Grass	✔ Accepted	0.11 s	C++
	✔✔				

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FILENAME	FILESIZE	SHA-1 SUM	
grass.cpp	1025 bytes	e59622aceae7ee98fb27aeb1f47d54a2059b72da	download

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grass.cpp

```
1 #include <bits/stdc++.h>
2
3 using namespace std;
4
5 int main(){
6     double N,L,W;
7
8     while(cin>>N>>L>>W){
9         double _x,_r;
10
11         vector<pair<double,double>> v;
12
13         for(int i = 0; i < N; i++){
```

```

14         cin>>_x>>_r;
15         if(_r*_r < (W/2.0)*(W/2.0))
16             continue;
17         double dx;
18         dx = sqrt(_r*_r - (W/2.0)*(W/2.0));
19         v.push_back(make_pair(_x-dx,_x+dx));
20     }
21     sort(v.begin(),v.end());
22     int cnt = 0;
23     double l = 0;
24     int i = 0;
25     while(l < L){
26         double newR=l;
27         for(; i < v.size(); i++){
28             if(v[i].first > l)
29                 break;
30             if(v[i].second>newR)
31                 newR = v[i].second;
32         }
33         if(newR==l)
34             break;
35         l = newR;
36         cnt++;
37     }
38     if(l >= L)
39         cout<<cnt<<endl;
40     else
41         puts("-1");
42 }
43 return 0;
44 }
45 }

```