



# **CSES Problem Set**

# **Rectangle Cutting**

TASK | SUBMIT | RESULTS | STATISTICS | HACKING

# **Submission details**

_Task:	Rectangle Cutting
Sender:	seleneal1996
Submission time:	2021-11-26 05:30:06
Language:	C++11
Status:	READY
Result:	ACCEPTED

# **Test results** ▲

test	verdict	time	
#1	ACCEPTED	0.01 s	<u>&gt;&gt;</u>
#2	ACCEPTED	0.01 s	<u>&gt;&gt;</u>
#3	ACCEPTED	0.01 s	<u>&gt;&gt;</u>
#4	ACCEPTED	0.01 s	<u>&gt;&gt;</u>
#5	ACCEPTED	0.01 s	<u>&gt;&gt;</u>
#6	ACCEPTED	0.30 s	<u>&gt;&gt;</u>
#7	ACCEPTED	0.18 s	<u>&gt;&gt;</u>
#8	ACCEPTED	0.04 s	<u>&gt;&gt;</u>
#9	ACCEPTED	0.15 s	<u>&gt;&gt;</u>
#10	ACCEPTED	0.01 s	<u>&gt;&gt;</u>
#11	ACCEPTED	0.14 s	<u>&gt;&gt;</u>
#12	ACCEPTED	0.07 s	<u>&gt;&gt;</u>
#13	ACCEPTED	0.28 s	<u>&gt;&gt;</u>
#14	ACCEPTED	0.01 s	<u>&gt;&gt;</u>
#15	ACCEPTED	0.03 s	<u>&gt;&gt;</u>
#16	ACCEPTED	0.23 s	<u>&gt;&gt;</u>
#17	ACCEPTED	0.01 s	<u>&gt;&gt;</u>
#18	ACCEPTED	0.08 s	<u>&gt;&gt;</u>
#19	ACCEPTED	0.04 s	<u>&gt;&gt;</u>
#20	ACCEPTED	0.91 s	<u>&gt;&gt;</u>
#21	ACCEPTED	0.90 s	<u>&gt;&gt;</u>
#22	ACCEPTED	0.01 s	<u>&gt;&gt;</u>
#23	ACCEPTED	0.01 s	<u>&gt;&gt;</u>
#24	ACCEPTED	0.23 s	<u>&gt;&gt;</u>
#25	ACCEPTED	0.03 s	<u>&gt;&gt;</u>

# **Dynamic Programming**

_ <b>,</b>	
Array Description	_
Counting Towers	_
Edit Distance	_
Rectangle Cutting	<b>✓</b>
Money Sums	_
Removal Game	_
Two Sets II	_
Increasing Subsequence	_

#### Your submissions

2021-11-26 05:30:06	<b>✓</b>
2021-11-26 05:17:34	X

test	verdict	time	
#26	ACCEPTED	0.91 s	<u>&gt;&gt;</u>

#### Code -

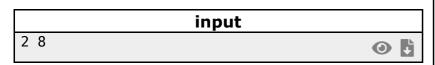
```
//https://cses.fi/problemset/task/1744
 2
   #include <bits/stdc++.h>
 3
   class RectangleCutting{
 4
   public:
 5
      int Solve(int a,int b){
 6
        int dp[a+1][b+1];
 7
        for(int h=1;h<=a;h++)</pre>
 8
          for(int w=1; w<=b; w++)</pre>
 9
10
11
            if (h==w)
12
               dp[h][w]=0;
13
            else
14
15
               int ans=1e8;
16
               for(int i=1;i<w;i++)</pre>
17
                 ans=fmin(ans,1+dp[h][w-i]+dp[h][i
18
               for(int i=1;i<h;i++)
19
                 ans=fmin(ans,1+dp[h-i][w]+dp[i][w]
20
              dp[h][w]=ans;
21
22
          }
23
24
        return dp[a][b];
25
   };
26
27
28 int main()
29
30
      std::ios base::sync with stdio(false);
31
      std::cin.tie(0);
32
     RectangleCutting S1=RectangleCutting();
33
     long long t;
34
     t=1;
35
     while(t--){
36
        int a,b;
37
        std::cin>>a>>b;
38
        std::cout<<S1.Solve(a,b);</pre>
39
      }
40
      return 0;
41 | }
```

#### Share code to others

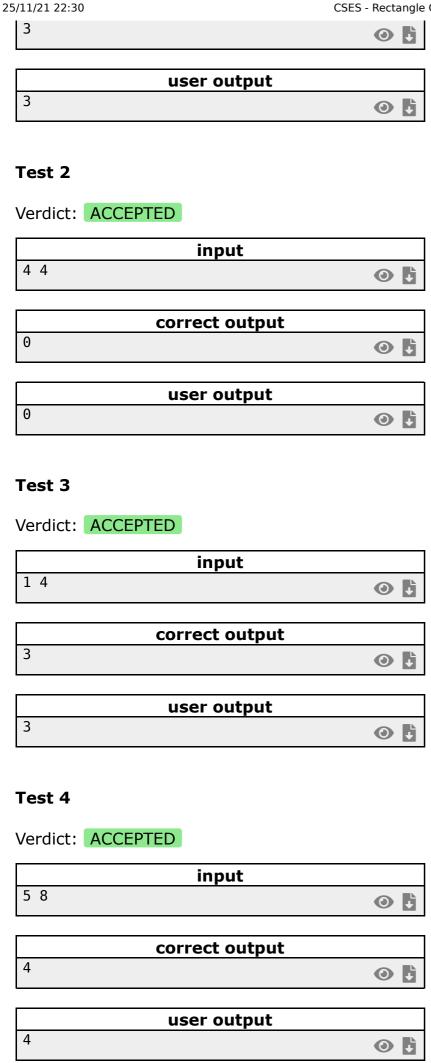
#### Test details -

#### Test 1

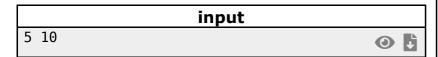
Verdict: ACCEPTED

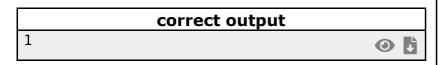


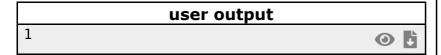
#### correct output



Verdict: ACCEPTED

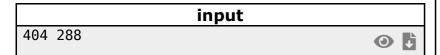




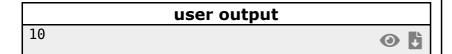


#### Test 6

Verdict: ACCEPTED

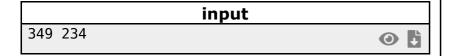


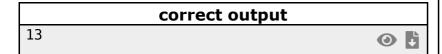




#### Test 7

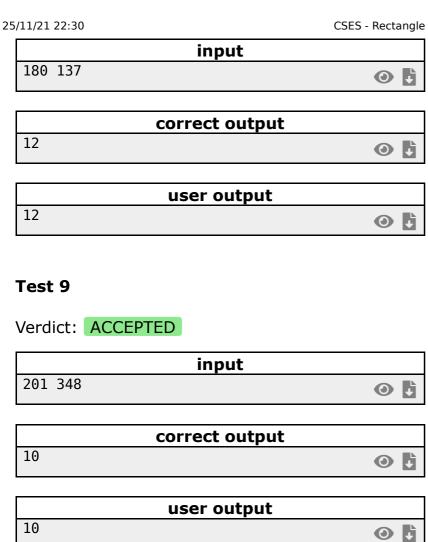
Verdict: ACCEPTED



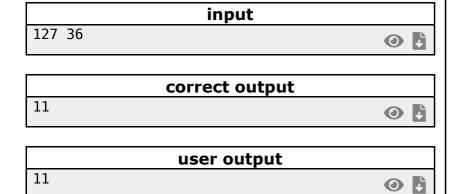




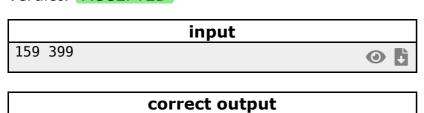
#### Test 8

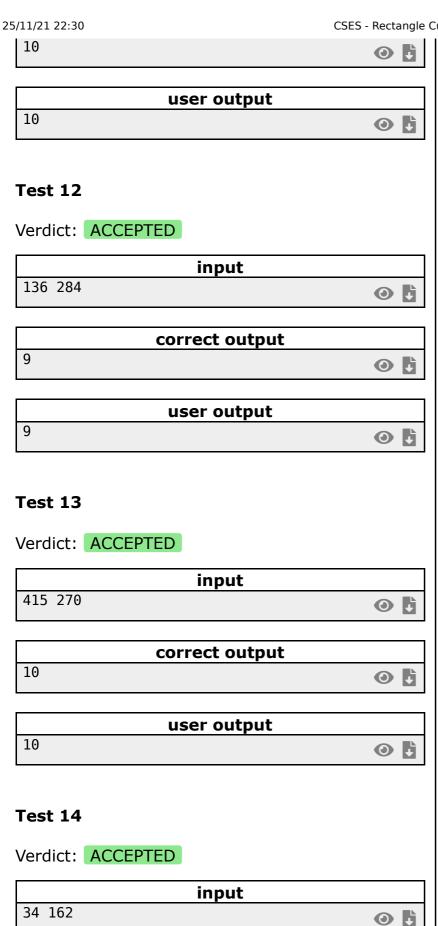


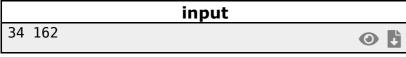
Verdict: ACCEPTED



#### Test 11



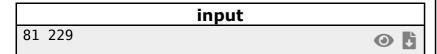


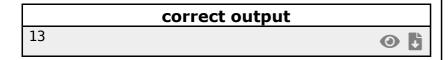


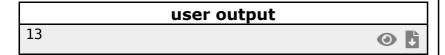
	correct output	
11		<b>O</b>

	user output	
11		<b>O</b>

Verdict: ACCEPTED

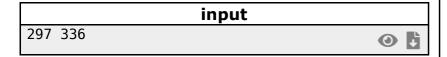




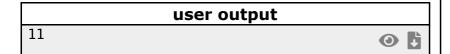


#### Test 16

Verdict: ACCEPTED

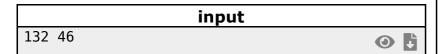


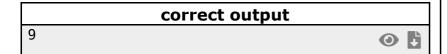




#### **Test 17**

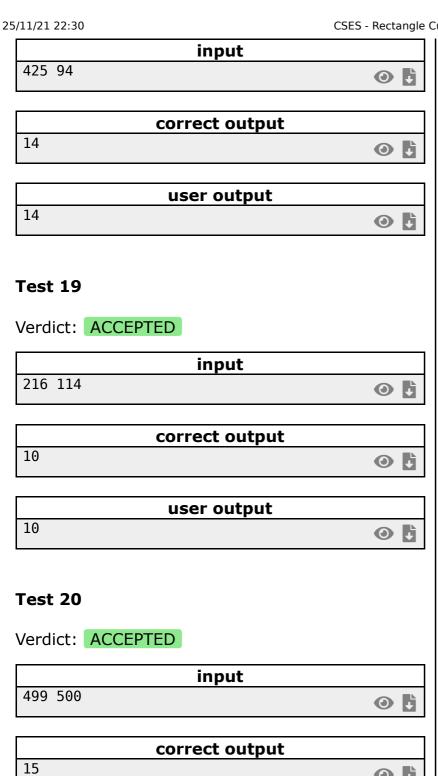
Verdict: ACCEPTED

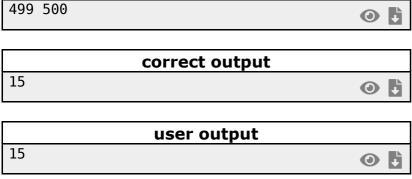


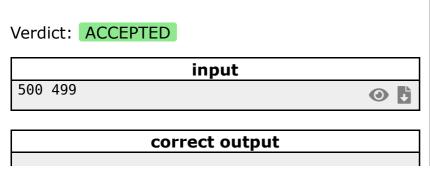


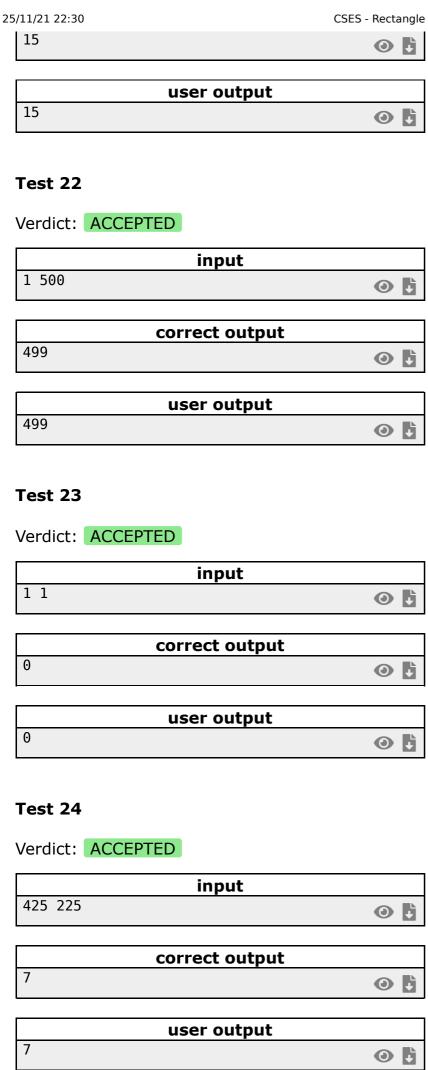


#### **Test 18**

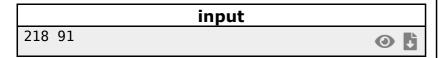


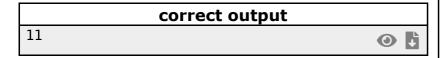


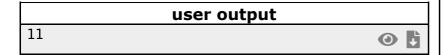




Verdict: ACCEPTED







#### Test 26

