CSES Problem Set

Rectangle Cutting

Submission details

Task:	Rectangle Cutting
Sender:	Anthony M
Submission time:	2021-12-04 08:58:32
Language:	Java
Status:	READY
Result:	ACCEPTED

Test results

test	verdict	time	
#1	ACCEPTED	0.13 s	»
#2	ACCEPTED	0.13 s	»
#3	ACCEPTED	0.13 s	»
#4	ACCEPTED	0.13 s	»
#5	ACCEPTED	0.13 s	»
#6	ACCEPTED	0.24 s	»
#7	ACCEPTED	0.21 s	»
#8	ACCEPTED	0.17 s	»
#9	ACCEPTED	0.21 s	»

Dynamic Programming
...
Array Description -
Counting Towers -
Edit Distance -
Rectangle Cutting ✓
Money Sums -
Removal Game -
Two Sets II -
Increasing Subsequence -
...

Your submissions
2021-12-04 08:58:32 ✓

#10	ACCEPTED	0.14 s	»
#11	ACCEPTED	0.22 s	»
#12	ACCEPTED	0.16 s	»
#13	ACCEPTED	0.23 s	»
#14	ACCEPTED	0.15 s	»
#15	ACCEPTED	0.15 s	»
#16	ACCEPTED	0.23 s	»
#17	ACCEPTED	0.15 s	»
#18	ACCEPTED	0.17 s	»
#19	ACCEPTED	0.17 s	»
#20	ACCEPTED	0.48 s	»
#21	ACCEPTED	0.48 s	»
#22	ACCEPTED	0.14 s	»
#23	ACCEPTED	0.13 s	»
#24	ACCEPTED	0.22 s	»
#25	ACCEPTED	0.16 s	»
#26	ACCEPTED	0.49 s	»

Code

```java
import java.util.*;

public class RectangleCutting {

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int a = sc.nextInt();
        int b = sc.nextInt();

        int[][] rect = new int[a + 1][b + 1];

```

```java
        for (int i = 1; i <= a; i++) {
            for (int j = 1; j <= b; j++) {
                if (i == j) {                          //quiere decir que es cuadrad
                    rect[i][j] = 0;
                    continue;
                }

                int min = Integer.MAX_VALUE;

                for (int k = 1; k < i; k++) {                          //corte en ho
                    if ((rect[k][j] + rect[i - k][j]) < min) {
                        min = rect[k][j] + rect[i - k][j];
                    }
                }
                for (int k = 1; k < j; k++) {                          //corte en ve
                    if ((rect[i][k] + rect[i][j - k]) < min) {
                        min = rect[i][k] + rect[i][j - k];
                    }
                }
                rect[i][j] = min + 1;
            }
        }

        System.out.println(rect[a][b]);
    }
}
```

Share code to others

Test details

Test 1

Verdict: ACCEPTED

input