CSES Problem Set

Book Shop

Submission details

Task:	Book Shop
Sender:	Anthony M
Submission time:	2021-12-03 08:27:42
Language:	Java
Status:	READY
Result:	TIME LIMIT EXCEEDED

Test results

test	verdict	time	
#1	ACCEPTED	0.13 s	»
#2	ACCEPTED	0.18 s	»
#3	ACCEPTED	0.22 s	»
#4	ACCEPTED	0.21 s	»
#5	ACCEPTED	0.13 s	»
#6	TIME LIMIT EXCEEDED	--	»
#7	TIME LIMIT EXCEEDED	--	»
#8	TIME LIMIT EXCEEDED	--	»
#9	TIME LIMIT EXCEEDED	--	»

Dynamic Programming

...
Coin Combinations II -
Removing Digits -
Grid Paths -
Book Shop ×
Array Description -
Counting Towers -
Edit Distance -
Rectangle Cutting -
...

Your submissions

2021-12-03 08:27:42 ×
2021-12-03 08:25:20 ×
2021-12-03 08:24:25 ×
2021-12-03 08:13:51 ×
2021-12-03 08:09:07 ×
2021-12-03 08:06:11 ×

#10	TIME LIMIT EXCEEDED	--	»
#11	TIME LIMIT EXCEEDED	--	»
#12	ACCEPTED	0.13 s	»
#13	TIME LIMIT EXCEEDED	--	»
#14	ACCEPTED	0.13 s	»

Code

```java
//Problema 2
//maxPages(precios, páginas, presupueto, capacidad): Nos devuelve la cantidad máx
//
import java.util.*;
public class PruebaCSES {

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

        int n = sc.nextInt();      //capacidad
        int x = sc.nextInt();     //dinero disponible (presupuesto)

        int[] prices = new int[n];
        int[] pages = new int[n];

        for (int i = 0; i < n; i++) {
            prices[i] = sc.nextInt();
        }
        for (int i = 0; i < n; i++) {
            pages[i] = sc.nextInt();
        }

        System.out.println(maxPages(prices, pages, x, n));
    }

    public static int maxPages(int[] prices, int[] pages, int x, int n) {
        int[][] paginas = new int[n + 1][x + 1]; //Creamos una matriz donde se va
```

```
28
29          //Rellenamos la 1ª fila de ceros
30          for (int i = 0; i <= x; i++) {
31              paginas[0][i] = 0;
32          }
33          //Rellenamos la 1ª columna de ceros
34          for (int i = 0; i <= n; i++) {
35              paginas[i][0] = 0;
36          }
37
38          for (int i = 1; i <= n; i++) {                  //recorremos las siguient
39              for (int j = 1; j <= x; j++) {
40                  if (j < prices[i - 1]) {                //si no hemos sobrepasad
41                      paginas[i][j] = paginas[i - 1][j];    //Se guarda el mismo li
42                  } else {
43                      if (paginas[i - 1][j] > paginas[i - 1][j - prices[i - 1]] + p
44                          paginas[i][j] = paginas[i - 1][j];
45                      } else {
46                          paginas[i][j] = paginas[i - 1][j - prices[i - 1]] + pages
47                      }
48                  }
49              }
50          }
51          return paginas[n][x];
52      }
53  }
```

Share code to others

Test details

Test 1

Verdict: ACCEPTED

input

Test 13

Verdict: TIME LIMIT EXCEEDED

input
1000 100000 34 709 850 724 326 312 200 538...

correct output
258924

user output
(empty)

Test 14

Verdict: ACCEPTED

input
4 10 4 8 6 3 5 12 8 1

correct output
13

user output
13