

Submission

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Project1.java	1288 bytes	3cb3dcda81633fe297f28c5158ed11f998d39b1f	download

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Project1.java

```

1 import java.util.Scanner;
2 public class Project1 {
3
4     public static void main(String[] args) {
5         Scanner input = new Scanner(System.in);
6
7         // Takes input for height of wall, width of wall, and number of bricks
8         int h = input.nextInt();
9         int w = input.nextInt();
10        int n = input.nextInt();
11
12        // Creates an array called bricks and fills it with user input for width of
each brick;
13        int[] bricks = new int[n];
14        for (int i = 0; i < n; i++)
15            bricks[i] = input.nextInt();
16
17        // Create variable to take into account the width of the wall remaining at
each layer
18        int widthRemaining = w;
19
20        // Uses a brick and then checks if the width of the wall has been completed
filled
21        for (int i = 0; i < bricks.length; i++) {

```

```
22         widthRemaining -= bricks[i];
23
24         // If the width of the wall has been perfectly filled, move onto next
layer, or print yes if it is the last layer. decrements height
25         if (widthRemaining == 0) {
26             widthRemaining = w;
27             h--;
28             if (h == 0)
29                 System.out.println("YES");
30
31             // This will print no if another brick cannot be placed without
hyperextending past the given length of the wall.
32         } else if (widthRemaining < 0) {
33             System.out.println("NO");
34             break;
35         }
36     }
37
38     input.close();
39 }
40
41
42 }
43
```