Candy Crush

There's a candy trapped at some position(index) in an array. The array is unstable.

Each element of the array will collapse on itself at some given time.

If the candy is at a position which is being crushed, well, let's just say, there will be no more candy.

The candy has the list times[], where times[i] represents the time when the i-th element of the array will get crushed.

The candy can do one of the following moves:

* move to positions i-1 (if i-1 >= 0) OR
* move to position i+1 (if i+1 < n where n is the number of elements in the array)OR
* don't move (remain in position i)

Each move takes exactly 1 second.

Also, after an element of the array is crushed, it becomes unusable. This means that the candy can't pass through it anymore.

The candy starts its journey at time zero at some position. This position is known.

Return the maximum time (in seconds) before the candy gets crushed.

Input parameters:

times - array of integers, the list of field crush times. position - integer, the initial position of Candy in the array.

Constraints: times will have between 1 and 100 elements each element of times will be an integer between 1 and 1000

position will be between 0 and n-1 inclusive, where n is the number of elements in times

Return value: int - the maximum number of seconds you can keep Candy alive before she is crushed. Class Name:

CandyCrush

Method signature:

public int howLong(int[] times, int position)

*Test cases below are used to check the validity of your programm. If the program code is correct all the test cases will be returned as in the below example.*

Test Case 1: howLong({1,2,3,4}, 0) = 4

Test Case 2: howLong({1,2,10,4}, 0) = 10

Test Case 3: howLong({10,1,3,4,7}, 2) = 7

Test Case 4: howLong({10,2,3,4,7}, 2) = 10

Test Case 5: howLong({3,3,1,3,4,4,1,3}, 7) = 3

Test Case 6: howLong({1,2,4,3,4,3,1,3,3,4}, 1) = 4

Test Case 7: howLong({2,1,4,4,1,1,1,1,2,1}, 6) = 1 Test Case 8:

howLong({950,501,913,2,636,287,753,5,126,1,305,2,712,3,1,5,4,26,715,532,2,4,98,3,296,4,184 ,1,154,541,2,4,2,141,577,376,67,3,424,360,521,5,4,5,4,886,3,5,5,334}, 28) = 541 Test Case 9:

howLong({2,4,2,4,803,1,996,855,682,3,2,5,1,5,225,3,4,5,49,189,3,328,5,494,863,390,2,1,810,4, 819,5,4,645,691,5,279,82,202,368,546,1,1,2,488,4,163,2,487,486}, 12) = 225 Test Case 10:

howLong({288,1,256,327,723,432,674,196,218,90,6,563,643,431,351,948,546,282,705,805,864 ,229,99,499,865,986,218,961,434,12,338,255,91,797,406,519,242,329,578,220,912,866,702,41 2,456,430,702,688,397,222,792,153,155,784,957,413,401,167,76,586,429,306,124,498,136,25

8,152,752,660,136,160,378,771,358,861,296,658,988,173,740,350,879,32,362,597,125,345,2,1

93,420,417,51,808,195,169,50,703,505,327,579}, 0) = 288