# 739. Daily Temperatures

## SOLUTION IN JAVA

class Solution {

public int[] dailyTemperatures(int[] temperatures) {

int[] ans = new int[temperatures.length];

Deque<Integer> stack = new ArrayDeque<>(); // a decreasing stack

for (int i = 0; i < temperatures.length; ++i) {

while (!stack.isEmpty() && temperatures[stack.peek()] < temperatures[i]) {

final int index = stack.pop();

ans[index] = i - index;

}

stack.push(i);

}

return ans;

}

}