75 Days of Code

Day3
Problem no: 1431

There are **n** kids with candies. You are given an integer array **candies**, where each **candies[i]** represents the number of candies the i_{th} kid has, and an integer **extraCandies**, denoting the number of extra candies that you have.

Return *a boolean array* **result** *of length* n*, where* result[i] *is* true *if, after giving the* i_{th} *kid all the* extraCandies*, they will have the greatest number of candies among all the kids, or* false *otherwise*.

Note that multiple kids can have the greatest number of candies.

Example 1:

Input: candies = [2,3,5,1,3], extraCandies = 3
Output: [true,true,true,false,true]
Explanation: If you give all extraCandies to:
- Kid 1, they will have 2 + 3 = 5 candies, which is the greatest among the kids.
- Kid 2, they will have 3 + 3 = 6 candies, which is the greatest among the kids.
- Kid 3, they will have 5 + 3 = 8 candies, which is the greatest among the kids.
- Kid 4, they will have 1 + 3 = 4 candies, which is not the greatest among the kids.
- Kid 5, they will have 3 + 3 = 6 candies, which is the greatest among the kids.

Solution

For this problem , as mention in explanation

- Calculate the greatest among the kid
- Iterate over each kid candies and Now check if after adding extra candy to each candy   is less or greater than the greatest among the kid and accordingly put their boolean values

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```typescript
function kidsWithCandies(candies: number[], extraCandies: number): boolean[] {
    let kidWithGreatestCandy:boolean[]=[];
    let maxElement:number=Number.MIN_VALUE;
    for(let index =0 ;index<candies.length ;index++){
        maxElement = Math.max(maxElement,candies[index])
    }

    for(let candy of candies){
        let candyAfterAddingExtraCandy:number= candy+extraCandies;
        if(candyAfterAddingExtraCandy<maxElement){
          kidWithGreatestCandy.push(false)
        }else{
            kidWithGreatestCandy.push(true)

        }
    }
  return kidWithGreatestCandy;
};

let getCandyResult = kidsWithCandies([2,3,5,1,3],3);
console.log(getCandyResult)
```

```
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[Running] node "c:\Users\Shubham\Desktop\75daysOfCode\75DaysOfCode\day3.js"
[ true, true, true, false, true ]

[Done] exited with code=0 in 0.133 seconds
```

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