



```
JS problem_10.js > sortCheck
```

```

275 // -> isko hm likh ke run ker ke dekhte hai, ke kea result aata hai.
276 // // Shorting using recursion function
277 // // [2, 3, 1, 4] -> by default case -
278 // // [2, 1, 3, 4] -> case 1 -
279 // // [1, 2, 3, 4] -> Final Output -
280 let myArray = [2, 3, 1, 4];
281 let i=0;
282 let j=1;
283 function isSorted(array) {
284     for(let i=0; i<array.length;i++){
285         if(array[i] > array[i+1]) {
286             return false;
287         };
288     };
289     return true;
290 };
291 function sortCheck(array) {
292     if(isSorted(array)) {
293         return array;
294     }
295     else if (array[i] < array[j]) {
296         i++;
297         j++;
298         sortCheck(array)
299     }
300     else{
301         [array[i], array[j]] = [array[j], array[i]];
302         i=0;
303         j=1;
304         sortCheck(array);
305     };
306 };
307 const result = sortCheck(myArray);
308 console.log(result);
309 // -> hamare program ko run ker ke dekhte hai, ke kea output aata hai.
310 // Output:- Undefined
311 // /*output hamara undefined aa raha hai. */
312 // -> dekhte hai, ke undefined keo aaya yah samazna jaruri hai.

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS E:\Users\Public\Github + Hosting\DS & Algorithms Course by Technical Suneja\advance_recursion_function_sorting_interview_preparation_problem_10>
```

> OUTLINE

> TIMELINE



EXPLORER



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ADVANCE_RECURSION_FUNC...

problem_10.js > sortCheck



problem_10.js U

```
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```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS E:\Users\Public\Github + Hosting\DS & Algorithms Course by Technical Suneja\advance_recursion_function_sorting_interview_preparation_problem_10> node problem_10.js
undefined
```

```
PS E:\Users\Public\Github + Hosting\DS & Algorithms Course by Technical Suneja\advance_recursion_function_sorting_interview_preparation_problem_10> node problem_10.js
[ 1, 2, 3, 4 ]
```

```
PS E:\Users\Public\Github + Hosting\DS & Algorithms Course by Technical Suneja\advance_recursion_function_sorting_interview_preparation_problem_10> []
```

> OUTLINE

> TIMELINE



EXPLORER



problem_10.js U

▼ ADVANCE_RECURSION_FUNC...

problem_10.js



problem_10.js U

```
275 // -> isko hm likh ke run ker ke dekhte hai, ke kea result aata hai.
276 // // Shorting using recursion function
277 // // [2, 3, 1, 4] -> by default case -
278 // // [2, 1, 3, 4] -> case 1 -
279 // // [1, 2, 3, 4] -> Final Output -
280 // let myArray = [2, 3, 1, 4]; // aager array undorted rahegey to yaha hame undefined output me dekha dega, kuch is tarah se :- undefined
281 // ..... let myArray = [1, 2, 3, 4]; // or aager array sorted rahegeye to yaha hame ajatise sort array ko output me dekha dega, kuch is tarah se :- [1, 2, 3, 4]
282 // let i=0;
283 // let j=1;
284 // function isSorted(array) {
285 //     for(let i=0; i<array.length;i++){
286 //         if(array[i] > array[i+1]) {
287 //             return false;
288 //         };
289 //     };
290 //     return true;
291 // };
292 // function sortCheck(array) {
293 //     if(isSorted(array)) {
294 //         return array;
295 //     }
296 //     else if (array[i] < array[j]) {
297 //         i++;
298 //         j++;
299 //         sortCheck(array)
300 //     }
301 //     else{
302 //         [array[i], array[j]] = [array[j], array[i]];
303 //         i=0;
304 //         j=1;
305 //         sortCheck(array);
306 //     };
307 // };
308 // const result = sortCheck(myArray);
309 // console.log(result);
310 // -> hamare program ko run ker ke dekhte hai, ke kea output aata hai.
311 // Output:- Undefined
312 // {*output hamara undefined aa raha hai. *}
313 // -> dekhte hai, ke undefined keo aaya yah samazna jaruri hai.
```



PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS E:\Users\Public\Github + Hosting\DS & Algorithms Course by Technical Suneja\advance_recursion_function_sorting_interview_preparation_problem_10> node problem_10.js
undefined
```

```
PS E:\Users\Public\Github + Hosting\DS & Algorithms Course by Technical Suneja\advance_recursion_function_sorting_interview_preparation_problem_10> node problem_10.js
[ 1, 2, 3, 4 ]
```

```
PS E:\Users\Public\Github + Hosting\DS & Algorithms Course by Technical Suneja\advance_recursion_function_sorting_interview_preparation_problem_10> 
```

> OUTLINE

> TIMELINE



EXPLORER

ADVANCE_RECURSION_FUNCTI...

problem_10.js U

problem_10.js > sortCheck

problem_10.js U

```
339 // ***** Final Code *****
340 // // Sorting using recursive function :-
341 // // [2, 3, 1, 4] -> by default case.
342 // // [2, 1, 3, 4] -> case 1.
343 // // [1, 2, 3, 4] -> final output.
344
345 let myArray = [2, 3, 10, 15, 18, 20, 100, 1000, 101, 102, 1, 4, 8, 6];
346 let myNewList = [];
347 let i = 0;
348 let j = 1;
349
350 function isSorted(array) {
351     for(let i=0; i<array.length; i++){
352         if(array[i] > array[i+1]){
353             return false;
354         };
355     };
356     return true;
357 };
358
359 function sortCheck(array) {
360     if(isSorted(array)) {
361         myNewList = array;
362         return;
363     } else if(array[i] < array[j]) {
364         i++;
365         j++;
366         sortCheck(array);
367     } else {
368         [array[i], array[j]] = [array[j], array[i]];
369         i = 0;
370         j = 1;
371         sortCheck(array)
372     };
373 };
374
375 sortCheck(myArray);
376 console.log(myNewList);
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS E:\Users\Public\Github + Hosting\DS & Algorithms Course by Technical Suneja\advance_recursion_function_sorting_interview_preparation_problem_10> node "e:\Users\Public\Github + Hosting\DS & Algorithms Course by Technical Suneja\advance_recursion_function_sorting_interview_preparation_problem_10\problem_10.js"
[
  1, 2, 3, 4, 6,
  8, 10, 15, 18, 20,
  100, 101, 102, 1000
]
PS E:\Users\Public\Github + Hosting\DS & Algorithms Course by Technical Suneja\advance_recursion_function_sorting_interview_preparation_problem_10>
```