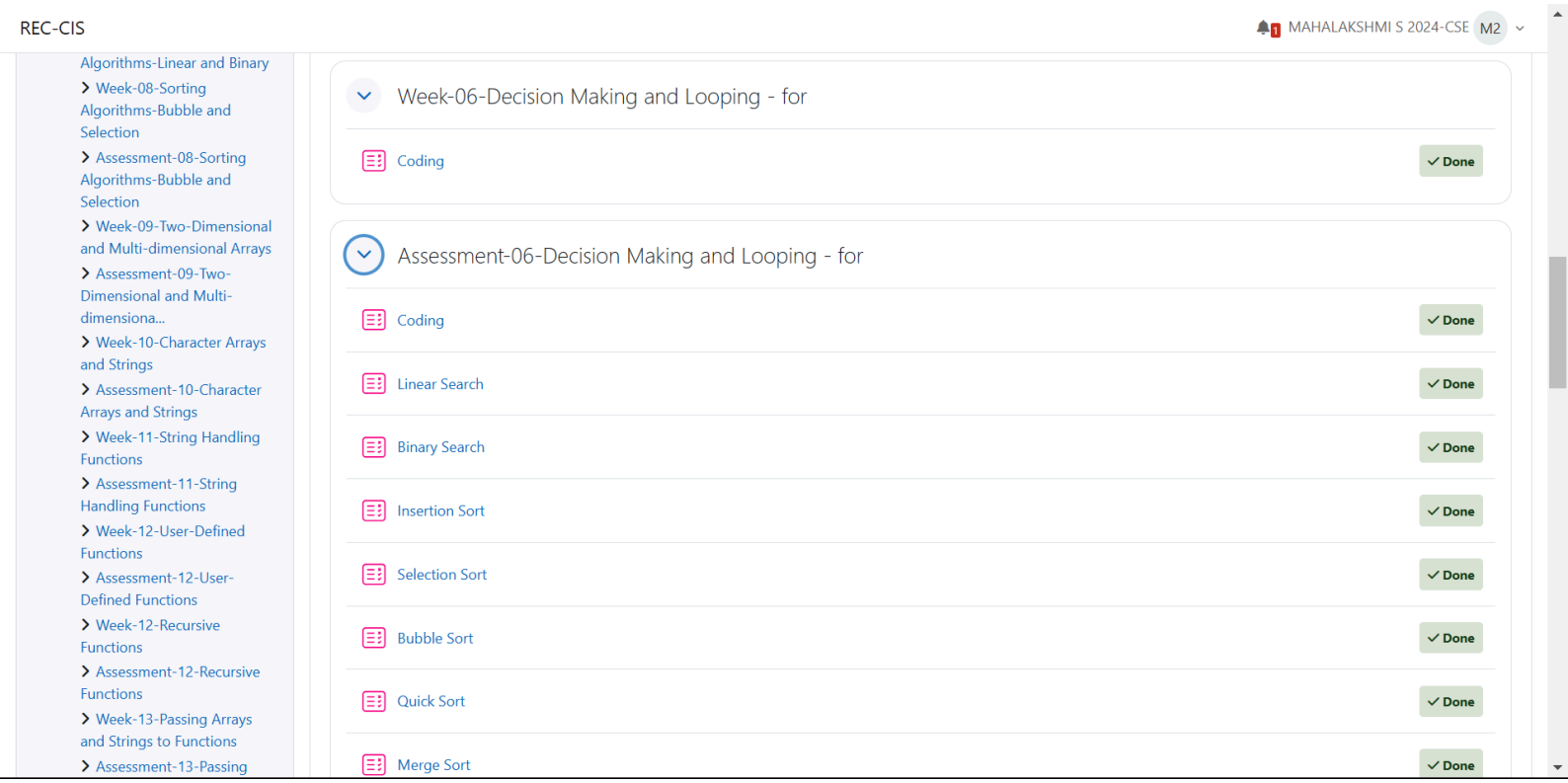
WEEK - 6


REC-CIS
MAHALAKSHMI S 2024-CSE M2
Algorithms-Linear and Binary
Week-08-Sorting Algorithms-Bubble and Selection
Assessment-08-Sorting Algorithms-Bubble and Selection
Week-09-Two-Dimensional and Multi-dimensional Arrays
Assessment-09-Two-Dimensional and Multi-dimensiona...
Week-10-Character Arrays and Strings
Assessment-10-Character Arrays and Strings
Week-11-String Handling Functions
Assessment-11-String Handling Functions
Week-12-User-Defined Functions
Assessment-12-User-Defined Functions
Week-12-Recursive Functions
Assessment-12-Recursive Functions
Week-13-Passing Arrays and Strings to Functions
Assessment-13-Passing
Week-06-Decision Making and Looping - for
Coding
Done
Assessment-06-Decision Making and Looping - for
Coding
Done
Linear Search
Done
Binary Search
Done
Insertion Sort
Done
Selection Sort
Done
Bubble Sort
Done
Quick Sort
Done
Merge Sort
Done

```c
#include<stdio.h>
int main(){
    int n;
    scanf("%d", &n);
    for(int i = 1; i <= 10; i++){
        printf("%d x %d = %d\n", n, i, n * i);
    }
}
```

	Input	Expected	Got	
✓	2	2 x 1 = 2 2 x 2 = 4 2 x 3 = 6 2 x 4 = 8 2 x 5 = 10 2 x 6 = 12 2 x 7 = 14 2 x 8 = 16 2 x 9 = 18 2 x 10 = 20	2 x 1 = 2 2 x 2 = 4 2 x 3 = 6 2 x 4 = 8 2 x 5 = 10 2 x 6 = 12 2 x 7 = 14 2 x 8 = 16 2 x 9 = 18 2 x 10 = 20	✓

Passed all tests! ✓

```c
#include<stdio.h>
int main(){
    long long int n, t, i, nut = 0;
    scanf("%lld %lld", &n, &t);
    for(i = 1; i <= n; i++){
        nut += i;
        if(nut == t){
            nut -= 1;
        }
    }
    printf("%lld", nut % 1000000007);
}
```

	Input	Expected	Got	
✓	2 2	3	3	✓
✓	2 1	2	2	✓
✓	3 3	5	5	✓

Passed all tests! ✓

```c
#include<stdio.h>
int main(){
    long n;
    int p;
    scanf("%ld %d", &n, &p);
    long factors[100000];
    int count = 0;
    for(long i = 1; i * i <= n; i++){
        if(n % i == 0){
            factors[count++] = i;
            if(i != n/i){
                factors[count++] = n/i;
            }
        }
    }
    for(int i = 0; i < count - 1; i++){
        for(int j = i + 1; j < count; j++){
            if(factors[i] > factors[j]){
                long temp = factors[i];
                factors[i] = factors[j];
                factors[j] = temp;
            }
        }
    }
    if(p > count){
        printf("0");
    }
    else{
        printf("%ld", factors[p - 1]);
    }
}
```

	Input	Expected	Got	
✓	10 3	5	5	✓
✓	10 5	0	0	✓
✓	1 1	1	1	✓

Passed all tests! ✓