

Problem 1: Finding Complex...

Problem 2: Finding Complex...

Problem 3: Finding Complex...

Problem 4: Finding Complex...

Problem 5: Finding Complex...

▼

Divide and Conquer

1-Number of Zeros in a Give...

2-Majority Element

3-Finding Floor Value

4-Two Elements sum to x

5-Implementation of Quick ...

▼

Greedy Algorithms

1-G-Coin Problem

2-G-Cookies Problem

3-G-Burger Problem

4-G-Array Sum max problem

5-G-Product of Array eleme...

▼

Dynamic Programming

1-DP-Playing with Numbers

2-DP-Playing with chessboard

3-DP-Longest Common Sub...

4-DP-Longest non-decreasi...

▼

Competitive Programming

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My courses

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CS233331-DAA-2024-CSE / 1-G-Coin Problem

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1-G-Coin Problem

Started on

Friday, 29 August 2025, 2:23 PM

State

Finished

Completed on

Friday, 29 August 2025, 2:42 PM

Time taken

19 mins 5 secs

Marks

1.00/1.00

Grade

10.00 out of 10.00 (100%)

Question 1

Correct

Mark 1.00 out of 1.00

🚩 Flag question

Write a program to take value V and we want to make change for V Rs, and we have infinite supply of each of the denominations in Indian currency, i.e., we have infinite supply of { 1, 2, 5, 10, 20, 50, 100, 500, 1000} valued coins/notes, what is the minimum number of coins and/or notes needed to make the change.

Input Format:  
  
Take an integer from stdin.  
  
Output Format:  
  
print the integer which is change of the number.  
  
Example Input :  
  
64  
  
Output:  
  
4  
  
Explanation:  
  
We need a 50 Rs note and a 10 Rs note and two 2 rupee coins.

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int change[]={1000,500,100,50,20,10,5,2,1},v,count=0;
4     scanf("%d",&v);
5     for(int i=0;i<10;i++){
6         while(v>=change[i]){
7             v-=change[i];
8             count++;
9         }
10    }
11    printf("%d",count);
12 }
```

	Input	Expected	Got	
✓	49	5	5	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Finish review

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Problem 3: Finding Complex...

Problem 4: Finding Complex...

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Divide and Conquer

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Competitive Programming

1-Finding Duplicates-O(n^2)...

2-Finding Duplicates-O(n) TL...

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CS23331-DAA-2024-CSE / 3-G-Burger Problem

3-G-Burger Problem

Started on

Sunday, 31 August 2025, 8:13 PM

State

Finished

Completed on

Sunday, 31 August 2025, 8:17 PM

Time taken

3 mins 41 secs

Marks

1.00/1.00

Grade

10.00 out of 10.00 (100%)

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

A person needs to eat burgers. Each burger contains a count of calorie. After eating the burger, the person needs to run a distance to burn out his calories. If he has eaten  $i$  burgers with  $c$  calories each, then he has to run at least  $3^i * c$  kilometers to burn out the calories. For example, if he ate 3 burgers with the count of calorie in the order: [1, 3, 2], the kilometers he needs to run are  $(3^0 * 1) + (3^1 * 3) + (3^2 * 2) = 1 + 9 + 18 = 28$ . But this is not the minimum, so need to try out other orders of consumption and choose the minimum value. Determine the minimum distance he needs to run. Note: He can eat burger in any order and use an efficient sorting algorithm. Apply greedy approach to solve the problem.

**Input Format**

First line contains the number of burgers

Second line contains calories of each burger which is n space-separate integers

**Output Format**

Print: Minimum number of kilometers needed to run to burn out the calories

**Sample Input**

3  
5 18 7

**Sample Output**

76

**For example:**

Test	Input	Result
Test Case 1	3 1 3 2	18

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 #include<stdlib.h>
3 #include<math.h>
4 int comp(const void *a,const void *b){
5     return(*(int *)b- *(int *)a);
6 }
7 int main(){
8     int num;
9     scanf("%d",&num);
10    int arr[num];
11    for(int i=0;i<num;i++){
12        scanf("%d",&arr[i]);
13    }
14    qsort(arr,num,sizeof(int),comp);
15    int km=0;
16    for(int i=0;i<num;i++){
17        km+=pow(num,i)*arr[i];
18    }
19    printf("%d",km);
20 }
```

	Test	Input	Expected	Got	
✓	Test Case 1	3 1 3 2	18	18	✓
✓	Test Case 2	4 7 4 9 6	389	389	✓
✓	Test Case 3	3 5 18 7	76	76	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Finish review

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Competitive Programming

1-Finding Duplicates-O(n^2)...

2-Finding Duplicates-O(n) TL...

3-Print Intersection of 2 sort...

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CS23331-DAA-2024-CSE / 4-G-Array Sum max problem

4-G-Array Sum max problem

Started on	Sunday, 31 August 2025, 8:17 PM
State	Finished
Completed on	Sunday, 31 August 2025, 8:22 PM
Time taken	5 mins 16 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

Question 1 | Correct Mark 1.00 out of 1.00 Flag question

Given an array of N integer, we have to maximize the sum of arr[i] \* i, where i is the index of the element (i = 0, 1, 2, ..., N).Write an algorithm based on Greedy technique with a Complexity O(nlogn).

Input Format:

First line specifies the number of elements-n

The next n lines contain the array elements.

Output Format:

Maximum Array Sum to be printed.

Sample Input:

5

2 5 3 4 0

Sample output:

40

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 #include<stdlib.h>
3 int comp(const void *a,const void*b){
4     return (*(int *)a -*(int *)b);
5 }
6 int main(){
7     int n;
8     scanf("%d",&n);
9     int arr[n];
10    for(int i=0;i<n;i++){
11        scanf("%d",&arr[i]);
12    }
13    qsort(arr,n,sizeof(int),comp);
14    int sum=0;
15    for(int i=0;i<n;i++){
16        sum+=arr[i]*i;
17    }
18    printf("%d",sum);
19 }
```

	Input	Expected	Got	
✓	5	40	40	✓
	2			
	5			
	3			
	4			
	0			
✓	10	191	191	✓
	2			
	2			
	2			
	4			
	3			
	3			
	5			
	5			
	5			
✓	2	45	45	✓
	45			
	3			

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Finish review

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