

GE23131-Programming Using C-2024

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Attempts allowed: 1

This quiz has been configured so that students may only attempt it using the Safe Exam Browser.

Time limit: 1 hour 30 mins

Your attempts

Attempt 1

Status **Finished**

Started Saturday, 11 January 2025, 7:35 PM

Completed Saturday, 11 January 2025, 7:50 PM

Duration 14 mins 13 secs

[Review](#)

No more attempts are allowed

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Coding: Attempt review | REC-CIS - Google Chrome

Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=149818&cmid=158

REC-CIS

Quiz navigation

1 2 3

Show one page at a time

Finish review

Status Finished
Started Saturday, 11 January 2025, 7:35 PM
Completed Saturday, 11 January 2025, 7:50 PM
Duration 14 mins 13 secs

Question 1
Incorrect
Marked out of 1.00
[Flag question](#)

You are given a sequence of $n-1$ distinct positive integers, all of which are less than or equal to a integer ' n '. You have to find the integer that is missing from the range $[1, 2, \dots, n]$. Solve the question without using arrays.

Input Format:
One line containing the integer ' n ' where $2 \leq n \leq 10,000$

First line is followed by a sequence of ' $n-1$ ' distinct positive integers. Note that the sequence may not be in any particular order.

Output Format:
One line containing the missing number

Sample Test Cases

Test Case 1

Input
3
1 2

Output
3

Test Case 2

Input
4
1 3 4

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REC-CIS

1 3 4
Output
2

For example:

Input	Result
3 1 2	3
4 1 3 4	2

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,i,a;
5     scanf("%d",&n);
6     for(i=1;i<=n;i++)
7     {
8         scanf("%d",&a);
9         if(a==i)
10            continue;
11         else
12         {
13             printf("%d",i);
14             break;
15         }
16     }
17     return 0;
18 }
```



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REC-CIS

```
#include<stdio.h>
int main()
{
    int n,i,a;
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        scanf("%d",&a);
        if(a==i)
            continue;
        else
        {
            printf("%d",i);
            break;
        }
    }
    return 0;
}
```

	Input	Expected	Got	
✓	3 1 2	3	3	✓
✓	4 1 3 4	2	2	✓

Your code failed one or more hidden tests.
Your code must pass all tests to earn any marks. Try again.

and Expressions Managing

9+ NIFTY +0.21%

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12:54 ENG IN 15-01-2025

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REC-CIS

Question **2**

Correct

Marked out of 1.00

Flag question

A Teacher came to the class with a large box that has several coins. Each coin has a number Printed on it. Before Coming to the class, she ensured that all the coins occurs an even number of times. However, while coming to the class one coin fell down and got lost. She wants to find out the number of missing coin (Solve the question without using arrays).

Input Format:

Take Number from stdin which no of coins n.

Take n-1 array of Integers from stdin.

Output Format:

Print the number of coin which is missed.

Example Input:

8

5 7 2 7 5 2 5

Output:

5

For example:

Input	Result
8	5
5 7 2 7 5 2 5	
6	6
5 5 6 6 6	

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
```

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REC-CIS

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,i,m,r=0;
5     scanf("%d",&n);
6     for(i=0;i<n;i++)
7     {
8         scanf("%d",&m);
9         r=m;
10    }
11    printf("%d\n",r);
12    return 0;
13 }
14 
```

	Input	Expected	Got	
✓	8 5 7 2 7 5 2 5	5	5	✓
✓	6 5 5 6 6 6	6	6	✓

Passed all tests! ✓

and Expressions Managing

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ENG IN

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Question 3
Correct
Marked out of 1.00
[Flag question](#)

An abundant number is a number for which the sum of its proper divisors is greater than the number itself.

Proper divisors of the number are those that are strictly lesser than the number.

Input Format:
Take input an integer from stdin

Output Format:
Print Yes if given number is Abundant. Otherwise, print No

Example input:
12

Output:
Yes

Explanation
The proper divisors of 12 are: 1, 2, 3, 4, 6, whose sum is $1 + 2 + 3 + 4 + 6 = 16$. Since sum of proper divisors is greater than the given number, 12 is an abundant number.

Example input:
13

Output:
No

Explanation
The proper divisors of 13 is: 1, whose sum is 1. Since sum of proper divisors is not greater than the given number, 13 is not an abundant number.

For example:

Input	Result
12	Yes

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REC-CIS

Question 3
Correct
Marked out of 1.00
[Flag question](#)

An abundant number is a number for which the sum of its proper divisors is greater than the number itself.

Proper divisors of the number are those that are strictly lesser than the number.

Input Format:
Take input an integer from stdin

Output Format:
Print Yes if given number is Abundant. Otherwise, print No

Example input:
12

Output:
Yes

Explanation
The proper divisors of 12 are: 1, 2, 3, 4, 6, whose sum is $1 + 2 + 3 + 4 + 6 = 16$. Since sum of proper divisors is greater than the given number, 12 is an abundant number.

Example input:
13

Output:
No

Explanation
The proper divisors of 13 is: 1, whose sum is 1. Since sum of proper divisors is not greater than the given number, 13 is not an abundant number.

For example:

Input	Result
12	Yes

Coding: Attempt review | REC-CIS - Google Chrome

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Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,i,sum=0;
5     scanf("%d",&n);
6     for(i=1;i<n;i++)
7     {
8         if(n%i==0)
9         {
10             sum+=i;
11         }
12     }
13     if(sum>n)
14         printf("Yes");
15     else
16         printf("No");
17     return 0;
18 }
19
```

	Input	Expected	Got	
✓	12	Yes	Yes	✓
✓	13	No	No	✓

Passed all tests! ✓

and Expressions Managing

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Linear Search

 [Done](#)[Re-attempt quiz](#)

Time limit: 1 hour

Grading method: Highest grade

Your attempts

Attempt 1

Status	Finished
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Started	Saturday, 11 January 2025, 7:51 PM
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Completed	Saturday, 11 January 2025, 7:57 PM
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Duration	6 mins 33 secs
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[Review](#)

Linear Search: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Quiz navigation

1

Finish review

Status	Finished
Started	Saturday, 11 January 2025, 7:51 PM
Completed	Saturday, 11 January 2025, 7:57 PM
Duration	6 mins 33 secs

Question 1

Correct

Marked out of 1.00

[Flag question](#)

Sample Input 1:

5
30 40 50 20 10
20

Sample Output 1:

Element found at location : 3

Sample Input 2:

5
30 40 50 20 10
55

Sample Output 2:

Element not found.

For example:

Input	Result
5 30 40 50 20 10 20	Element found at location : 3
5 30 40 50 20 10	Element not found.

Linear Search: Attempt review | REC-CIS - Google Chrome

Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=149834&cmid=159

REC-CIS

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,i,key,c=0;
5     scanf("%d",&n);
6     int a[n];
7     for(i=0;i<n;i++)
8     {
9         scanf("%d",&a[i]);
10    }
11    scanf("%d",&key);
12    for(i=0;i<n;i++)
13    {
14        if(a[i]==key)
15        {
16            c=1;
17            printf("Element found at location : %d",i);
18        }
19    }
20    if(c==0)
21    printf("Element not found.");
22    return 0;
23 }
```

	Input	Expected	Got	
✓	5 30 40 50 20 10 20	Element found at location : 3	Element found at location : 3	✓
✓	5 30 40 50 20 10 55	Element not found.	Element not found.	✓

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Search

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Assessment-02-Operators and Expressions, Managing

...

Week-03-Decision Making and Branching - if, if...else...

Binary Search

✓ Done

Re-attempt quiz

Time limit: 1 hour

Grading method: Highest grade

Your attempts

Attempt 1

Status	Finished
Started	Saturday, 11 January 2025, 7:58 PM
Completed	Saturday, 11 January 2025, 8:12 PM
Duration	14 mins 12 secs

Review

◀ Linear Search

Jump to...

Insertion Sort ▶



Binary Search: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Quiz navigation

1

Finish review

Status Finished
Started Saturday, 11 January 2025, 7:58 PM
Completed Saturday, 11 January 2025, 8:12 PM
Duration 14 mins 12 secs

Question 1
Correct
Marked out of 1.00
Flag question

Sample Input 1:
5
10 20 30 40 50
30

Sample Output 1:
Element found at location : 2

Sample Input 2:
5
10 20 30 40 50
55

Sample Output 2:
Element not found.

For example:

Input	Result
5 10 20 30 40 50 30	Element found at location : 2



Binary Search: Attempt review | REC-CIS - Google Chrome

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REC-CIS

5	Element not found.
10 20 30 40 50	
55	

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,i,left,right,mid,key,c=0;
5     scanf("%d",&n);
6     int a[n];
7     for(i=0;i<n;i++)
8     {
9         scanf("%d",&a[i]);
10    }
11    scanf("%d",&key);
12    left=0;
13    right=n-1;
14    while(left<=right)
15    {
16        mid=(left+right)/2;
17        if(a[mid]==key)
18        {
19            c=1;
20            printf("Element found at location : %d",mid);
21            break;
22        }
23        else if(a[mid]>key)
24            right=mid-1;
25        else
26            left=mid+1;
27        }
28        if(c==0)
29            printf("Element not found.");
30    return 0;
```

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Binary Search: Attempt review | REC-CIS - Google Chrome

Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=149838&cmid=160

REC-CIS

```
14 while(left<=right)
15 {
16     mid=(left+right)/2;
17     if(a[mid]==key)
18     {
19         c=1;
20         printf("Element found at location : %d",mid);
21         break;
22     }
23     else if(a[mid]>key)
24         right=mid-1;
25     else
26         left=mid+1;
27 }
28 if(c==0)
29 printf("Element not found.");
30 return 0;
31 }
```

	Input	Expected	Got	
✓	5 10 20 30 40 50 30	Element found at location : 2	Element found at location : 2	✓
✓	5 10 20 30 40 50 55	Element not found.	Element not found.	✓

Passed all tests! ✓

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Search

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Insertion Sort

 [Done](#)[Re-attempt quiz](#)

Time limit: 1 hour

Grading method: Highest grade

Your attempts

Attempt 1

Status	Finished
Started	Sunday, 12 January 2025, 1:13 PM
Completed	Sunday, 12 January 2025, 1:25 PM
Duration	11 mins 31 secs

[Review](#)

Insertion Sort: Attempt review | REC-CIS - Google Chrome

Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=150603&cmid=161

REC-CIS

```
1 #include<stdio.h>
2 int main()
3 {
4     int n;
5     scanf("%d",&n);
6     int arr[n];
7     for(int i=0;i<n;i++)
8         scanf("%d",&arr[i]);
9     for(int i=1;i<n;i++)
10    {
11         int key=arr[i];
12         int j=i-1;
13         while(j>=0 && arr[j]>key)
14         {
15             arr[j+1]=arr[j];
16             j--;
17         }
18         arr[j+1]=key;
19     }
20     for(int i=0;i<n;i++)
21         printf("%d ",arr[i]);
22     return 0;
23 }
```

	Input	Expected	Got	
✓	5 30 40 50 20 10	10 20 30 40 50	10 20 30 40 50	✓

Passed all tests! ✓

Assessment 02 Operators

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[Week-03-Decision Making and Branching - if, for, while](#)

Selection Sort

[Done](#)[Re-attempt quiz](#)

Time limit: 1 hour

Grading method: Highest grade

Your attempts

Attempt 1

Status	Finished
Started	Sunday, 12 January 2025, 1:25 PM
Completed	Sunday, 12 January 2025, 1:36 PM
Duration	10 mins 32 secs

[Review](#)[Insertion Sort](#)[Jump to...](#)[Bubble Sort](#)

Selection Sort: Attempt review | REC-CIS - Google Chrome

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REC-CIS

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Finish review

Status	Finished
Started	Sunday, 12 January 2025, 1:25 PM
Completed	Sunday, 12 January 2025, 1:36 PM
Duration	10 mins 32 secs

Question 1

Correct

Marked out of 1.00

Flag question

Sample Input:

5
30 40 50 20 10

Sample Output:

10 20 30 40 50

For example:

Input	Result
5	10 20 30 40 50
30 40 50 20 10	

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,i,j,minindex,temp;
5     scanf("%d",&n);
6     int arr[n];
7     for(int i=0;i<n;i++)
8         scanf("%d",&arr[i]);
9     for(i=0;i<n-1;i++)
10        if (arr[i]>arr[i+1]) {minindex=i+1;temp=arr[i];arr[i]=arr[minindex];arr[minindex]=temp};
```



Selection Sort: Attempt review | REC-CIS - Google Chrome

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REC-CIS

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,i,j,minindex,temp;
5     scanf("%d",&n);
6     int arr[n];
7     for(int i=0;i<n;i++)
8         scanf("%d",&arr[i]);
9     for(i=0;i<n-1;i++)
10    {
11        minindex=i;
12        for(j=i+1;j<n;j++)
13        {
14            if(arr[j]<arr[minindex])
15                minindex=j;
16        }
17        temp=arr[minindex];
18        arr[minindex]=arr[i];
19        arr[i]=temp;
20    }
21    for(i=0;i<n;i++)
22        printf("%d ",arr[i]);
23    return 0;
24 }
```

	Input	Expected	Got	
✓	5 30 40 50 20 10	10 20 30 40 50	10 20 30 40 50	✓

Passed all tests! ✓

MAKING and Branching - II

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Search          

ENG IN 12:58 15-01-2025



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...

Bubble Sort

 [Done](#)[Re-attempt quiz](#)

Time limit: 1 hour

Grading method: Highest grade

Your attempts

Attempt 1

Status	Finished
Started	Sunday, 12 January 2025, 1:36 PM
Completed	Sunday, 12 January 2025, 1:44 PM
Duration	7 mins 31 secs

[Review](#)

Bubble Sort: Attempt review | REC-CIS - Google Chrome

Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=150671&cmid=163

REC-CIS

Quiz summary

1

Finish review

Status Finished
Started Sunday, 12 January 2025, 1:36 PM
Completed Sunday, 12 January 2025, 1:44 PM
Duration 7 mins 31 secs

Question 1
Correct
Marked out of 1.00
Flag question

Sample Input:
5
30 40 50 20 10
Sample Output:
10 20 30 40 50

For example:

Input	Result
5	10 20 30 40 50
30 40 50 20 10	

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,i,temp,j;
5     scanf("%d",&n);
6     int a[n];
7     for(i=0;i<n;i++)
8         scanf("%d",&a[i]);
9     for(j=0;j<n-1;j++)
10    {
11        for(i=0;i<n-1;i++)
12            if(a[i]>a[i+1])
13            {
14                temp=a[i];
15                a[i]=a[i+1];
16                a[i+1]=temp;
17            }
18    }
19    for(i=0;i<n;i++)
20        printf("%d ",a[i]);
21 }
```

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Search

12:58 15-01-2025

Bubble Sort: Attempt review | REC-CIS - Google Chrome

Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=150671&cmid=163

REC-CIS

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,i,temp,j;
5     scanf("%d",&n);
6     int a[n];
7     for(i=0;i<n;i++)
8         scanf("%d",&a[i]);
9     for(j=0;j<n-1;j++)
10    {
11        for(i=0;i<n-1;i++)
12        {
13            if(a[i]>a[i+1])
14            {
15                temp=a[i];
16                a[i]=a[i+1];
17                a[i+1]=temp;
18            }
19        }
20    }
21    for(i=0;i<n;i++)
22    {
23        printf("%d ",a[i]);
24    }
25    return 0;
26 }
```

	Input	Expected	Got	
✓	5 30 40 50 20 10	10 20 30 40 50	10 20 30 40 50	✓

Passed all tests! ✓

REC-CIS

RESHMASHRI S 2024-IT R2

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Quick Sort

✓ Done

Re-attempt quiz

Time limit: 1 hour

Grading method: Highest grade

Your attempts

Attempt 1

Status	Finished
Started	Sunday, 12 January 2025, 3:24 PM
Completed	Sunday, 12 January 2025, 3:39 PM
Duration	14 mins 56 secs

Review








































































































































































































































































































Quick Sort: Attempt review | REC-CIS - Google Chrome

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REC-CIS

1

Finish review

Status Finished
Started Sunday, 12 January 2025, 3:24 PM
Completed Sunday, 12 January 2025, 3:39 PM
Duration 14 mins 56 secs

Question 1
Correct
Marked out of 1.00
Flag question

Sample Input:
5
30 40 50 20 10

Sample Output:
10 20 30 40 50

For example:

Input	Result
5 30 40 50 20 10	10 20 30 40 50

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 void swap(int * a,int * b);
3 int part(int arr[],int low,int high)
4 {
5     int piv=arr[high];
6     int i=low-1;
7     for(int j=low;j<=high;j++)
8     {
9         if(arr[j]<piv)
10        {
11            i++;
12            swap(&arr[i] &arr[j]);
13        }
14    }
15 }
```

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12:59 15-01-2025

Quick Sort: Attempt review | REC-CIS - Google Chrome

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REC-CIS

ANSWER (Partially correct, 0 / 0)

```
1 #include<stdio.h>
2 void swap(int * a,int * b);
3 int part(int arr[],int low,int high)
4 {
5     int piv=arr[high];
6     int i=low-1;
7     for(int j=low;j<=high;j++)
8     {
9         if(arr[j]<piv)
10         {
11             i++;
12             swap(&arr[i],&arr[j]);
13         }
14     }
15     swap(&arr[i+1],&arr[high]);
16     return i+1;
17 }
18 void sort(int arr[],int low,int high)
19 {
20     if(low<high)
21     {
22         int pi=part(arr,low,high);
23         sort(arr,low,pi-1);
24         sort(arr,pi+1,high);
25     }
26 }
27 void swap(int*a,int*b)
28 {
29     int t=*a;
30     *a=*b;
31     *b=t;
32 }
33 int main()
34 {
35     int n;
36     scanf("%d",&n);
37     int arr[n];
38     for(int i=0;i<n;i++)
39     {
40         arr[i]=rand();
41     }
42     sort(arr,0,n-1);
43     for(int i=0;i<n;i++)
44     {
45         printf("%d ",arr[i]);
46     }
47 }
```

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REC-CIS

```
20 if(low<high)
21 {
22     int pi=part(arr,low,high);
23     sort(arr,low,pi-1);
24     sort(arr,pi+1,high);
25 }
26 }
27 void swap(int*a,int*b)
28 {
29     int t=*a;
30     *a=*b;
31     *b=t;
32 }
33 int main()
34 {
35     int n;
36     scanf("%d",&n);
37     int arr[n];
38     for(int i=0;i<n;i++)
39         scanf("%d",&arr[i]);
40     sort(arr,0,n-1);
41     for(int i=0;i<n;i++)
42         printf("%d ",arr[i]);
43     return 0;
44 }
```

	Input	Expected	Got	
✓	5 30 40 50 20 10	10 20 30 40 50	10 20 30 40 50 ✓	

Passed all tests! ✓

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REC-CIS

GE23131-Programming Using C-2024

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Merge Sort

 [Done](#)[Re-attempt quiz](#)

Time limit: 1 hour

Grading method: Highest grade

Your attempts

Attempt 1

Status	Finished
Started	Sunday, 12 January 2025, 3:39 PM
Completed	Sunday, 12 January 2025, 3:57 PM
Duration	17 mins 10 secs

[Review](#)

Merge Sort: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Quiz navigation

1

Finish review

Status Finished
Started Sunday, 12 January 2025, 3:39 PM
Completed Sunday, 12 January 2025, 3:57 PM
Duration 17 mins 10 secs

Question 1
Correct
Marked out of 1.00
Flag question

Sample Input:
5
30 40 50 20 10

Sample Output:
10 20 30 40 50

For example:

Input	Result
5	10 20 30 40 50
30 40 50 20 10	

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 void merge(int arr[],int l,int m,int r)
3 {
4     int i,j,k;
5     int n1=m-1;
6     int n2=r-m;
7     int L[n1],R[n2];
8     for(i=0;i<n1;i++)
9         L[i]=arr[l+i];
```

Merge Sort: Attempt review | REC-CIS - Google Chrome

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REC-CIS

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 void merge(int arr[],int l,int m,int r)
3 {
4     int i,j,k;
5     int n1=m-l+1;
6     int n2=r-m;
7     int L[n1],R[n2];
8     for(i=0;i<n1;i++)
9         L[i]=arr[l+i];
10    for(int j=0;j<n2;j++)
11        R[j]=arr[m+1+j];
12    i=0;
13    j=0;
14    k=l;
15    while(i<n1 && j<n2)
16    {
17        if(L[i]<=R [j])
18        {
19            arr[k]=L[i];
20            i++;
21        }
22        else
23        {
24            arr[k]=R[j];
25            j++;
26        }
27        k++;
28    }
29    while(i<n1)
30    {
31        arr[k]=L[i];
32        i++;
33        k++;
34    }
35    while(j<n2)
36    {
37        arr[k]=R[j];
38    }
39}
```

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REC-CIS

```
34 }  
35 }  
36 v  
37 {  
38 | arr[k]=R[j];  
39 | j++;  
40 | k++;  
41 }  
42 void sort(int arr[],int l,int r)  
43 {  
44 if(l<r)  
45 {  
46 | int m=l+(r-l)/2;  
47 | sort(arr,l,m);  
48 | sort(arr,m+1,r);  
49 | merge(arr,l,m,r);  
50 }  
51 }  
52 int main()  
53 {  
54 | int n;  
55 | scanf("%d",&n);  
56 | int arr[n];  
57 | for(int i=0;i<n;i++)  
58 | | scanf("%d",&arr[i]);  
59 | sort(arr,0,n-1);  
60 | for(int i=0;i<n;i++)  
61 | | printf("%d ",arr[i]);  
62 | return 0;  
63 }  
64 }  
65 }
```

	Input	Expected	Got	
	5	10 20 30 30 10 50	10 20 30 30 10 50	

Merge Sort: Attempt review | REC-CIS - Google Chrome

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REC-CIS

```
36     {
37         arr[k]=R[j];
38         j++;
39         k++;
40     }
41 }
42 void sort(int arr[],int l,int r)
43 {
44     if(l<r)
45     {
46         int m=l+(r-l)/2;
47         sort(arr,l,m);
48         sort(arr,m+1,r);
49         merge(arr,l,m,r);
50     }
51 }
52 int main()
53 {
54     int n;
55     scanf("%d",&n);
56     int arr[n];
57     for(int i=0;i<n;i++)
58         scanf("%d",&arr[i]);
59     sort(arr,0,n-1);
60     for(int i=0;i<n;i++)
61         printf("%d ",arr[i]);
```

	Input	Expected	Got	
✓	5 30 40 50 20 10	10 20 30 40 50	10 20 30 40 50	✓

Passed all tests! ✓