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main.c

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 int powerfun(int, int);
4 int main()
5 {
6     int n, sum = 0, temp, remainder, digits = 0;
7     printf("ARMSTRONG NUMBER USING RECURSION");
8     printf("Input number to check Armstrong or not: ");
9     scanf("%d", &n);
10    temp = n;
11    while (temp != 0) {
12        digits++;
13        temp = temp/10;
14    }
15    temp = n;
16    while (temp != 0) {
17        remainder = temp%10;
18        sum = sum + powerfun(remainder, digits);
19        temp = temp/10;
20    }
21    if (n == sum)
22        printf("%d is an Armstrong number.\n", n);
23    else
24        printf("%d is not an Armstrong number.\n", n);
25    getch();
26 }
27 int powerfun(int num, int r) {
28     int c, res = 1;
29     for (c = 1; c <= r; c++)
30         res = res*num;
31     return res;
32 }
```

input

ARMSTRONG NUMBER USING RECURSIONInput number to check Armstrong or not: 153
153 is an Armstrong number.



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main.c

```
1 #include <stdio.h>
2 #define MAX 100
3 int getMaxElement(int []);
4 int size;
5 int main()
6 {
7     int arr[MAX], max, i;
8     printf("USING RECURSION\n");
9     printf("Enter the size of the array: ");
10    scanf("%d", &size);
11    printf("Enter %d elements\n", size);
12    for(i = 0; i < size; i++)
13    {
14        scanf("%d", &arr[i]);
15    }
16    max = getMaxElement(arr);
17    printf("Largest element of the array is %d\n", max);
18    return 0;
19 }
20 int getMaxElement(int a[])
21 {
22     static int i = 0, max = -9999;
23     if(i < size)
24     {
25         if(max < a[i])
26             max = a[i];
27         i++;
28         getMaxElement(a);
29     }
30 }
```

input

```
USING RECURSION
Enter the size of the array: 4
Enter 4 elements
54
89
65
33
Largest element of the array is 89
```


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```
main.c
#include <stdio.h>
int main() {
    int n;
    double arr[100];
    printf("NON RECURSIVE ");
    printf("\nEnter the number of elements (1 to 100): ");
    scanf("%d", &n);
    for (int i = 0; i < n; ++i)
    {
        printf("Enter number%d: ", i + 1);
        scanf("%lf", &arr[i]);
    }
    for (int i = 1; i < n; ++i)
    {
        if (arr[0] < arr[i])
        {
            arr[0] = arr[i];
        }
    }
    printf("Largest element = %.2lf", arr[0]);
    return 0;
}
```

NON RECURSIVE

Enter the number of elements (1 to 100): 5

Enter number1: 23

Enter number2: 54

Enter number3: 44

Enter number4: 77

Enter number5: 98

Largest element = 98.00

input

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main.c

```
void printFibonacci(int n)
{
    static int n1=0,n2=1,n3;
    if(n>0){
        n3 = n1 + n2;
        n1 = n2;
        n2 = n3;
        printf("%d ",n3);
        printFibonacci(n-1);
    }
}

int main()
{
    int n;
    printf("USING RECURSION");
    printf("\nEnter the number of elements: ");
    scanf("%d",&n);
    printf("Fibonacci Series: ");
    printf("%d %d ",0,1);
    printFibonacci(n-2);
    return 0;
}
```

USING RECURSION

Enter the number of elements: 8

Fibonacci Series: 0 1 1 2 3 5 8 13

...Program finished with exit code 0

Press ENTER to exit console.

main.c

```
1  #include<stdio.h>
2  int main()
3  {
4      int n1=0,n2=1,n3,i,num;
5      printf("Enter the number of elements:");
6      scanf("%d",&num);
7      printf("\n%d %d",n1,n2);
8      for(i=2;i<num;++i)
9      {
10         n3=n1+n2;
11         printf(" %d",n3);
12         n1=n2;
13         n2=n3;
14     }
15     return 0;
16 }
17
```

input

Enter the number of elements:9

0 1 1 2 3 5 8 13 21

...Program finished with exit code 0
Press ENTER to exit console.