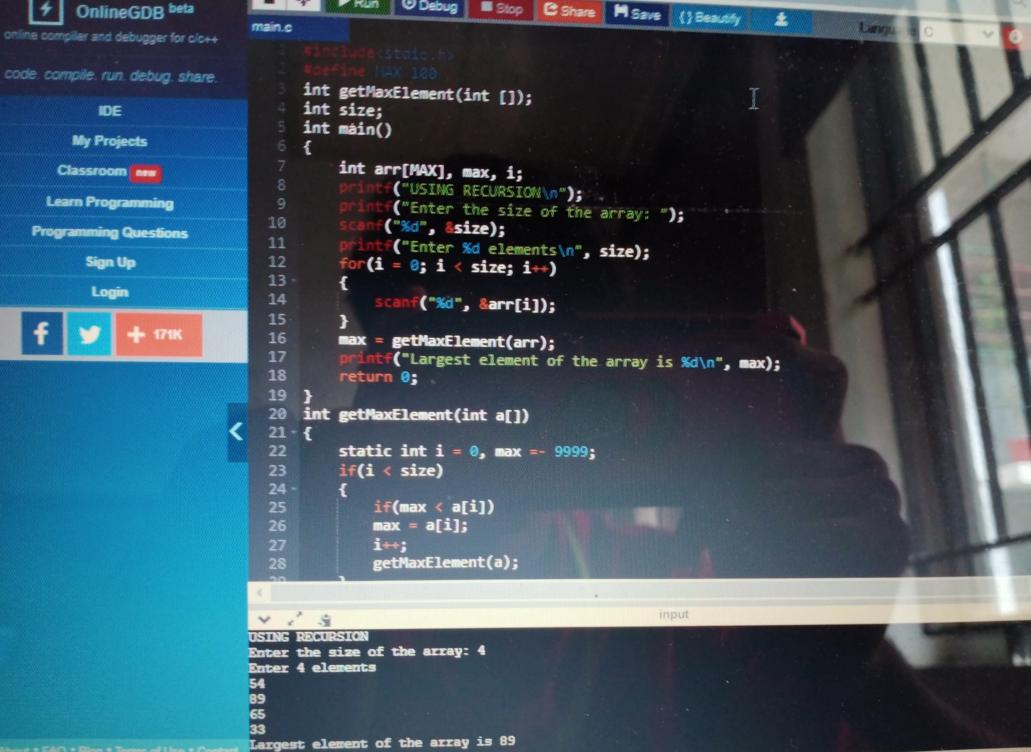
```
OnlineGDB beta
                                                                       1 Deanthy
                          main.c
e compiler and debugger for c/c++
e. compile. run. debug. share.
                                 int powerfun(int, int);
                                 int main()
        IDE
     My Projects
                                    int n, sum = 0, temp, remainder, digits = 0;
                                           ("ARMSTRONG NUMBER USING RECURSION");
   Classroom new
                                          ("Input number to check Armstrong or not: ");
  Learn Programming
                                      canf("%d", &n):
                            10
                                    temp = n;
Programming Questions
                                    while (temp != 0) {
                            11 -
                            12
                                       digits++:
      Sign Up
                            13
                                       temp = temp/10;
       Login
                            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)
                                       printf("%d is an Armstrong number.\n", n);
                             22
                             23
                                    else
                                     printf("%d is not an Armstrong number.\n", n);
                             24
                             25
                                    getch();
                                 int powerfun(int num, int r) {
                             27
                                    int c, res = 1;
                                    for (c = 1; c <= r; c++)
                                       res = res*num;
                                    return res;
                             32 }
```

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

Langua 3 C



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```
int main() {
      int n:
      double arr[100];
            ("NON RECURSIVE ");
            ("\nEnter the number of elements (1 to 100): "
           ("%d", &n);
          (int i = 0; i < n; ++i)
10
              ("Enter number%d: ", i + 1);
11
             ("%lf", &arr[i]);
12
      for (int i = 1; i < n; ++i)
13
14 -
15
        if (arr[0] < arr[i])
16 -
17
          arr[0] = arr[i];
18
19
      printf("Largest element = %.21f", arr[0]);
20
21
      return 0;
22
23
```

```
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
```

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