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DEPT:	BSCS
PF:	TASK 03

TASK 01:

```
#include<iostream>
using namespace std;

int main(void) {
    int a, b, c, d;
    cout << "Enter a, b, c, d: ";
    cin >> a >> b >> c >> d;
    if(a > b) {
        if(a > c){
            if ( a > d)
                cout << a << ": a is greater!\n";
            else
                cout << d << ": d is greater\n";
        } else {
            if (c > d) {
                cout << c << ": c is greater\n";
            }
        }
    } else {
        if (b > c) {
            if (b > d) {
                cout << b << ": b is greater\n";
            } else {
                cout << d << ": d is greater\n";
            }
        } else {
            if(c > d) {
                cout << c << ": c is greater\n";
            } else {
                cout << d << ": d is greater\n";
            }
        }
    }
}
```

```
}  
}  
}
```

OUTPUT:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS  
cd "/home/maqsood/My_Data/Code_Playground/Cpp/Cpp_maqsood@mr-maqsood:~/My_Data/Code_Playground/Cpp/Cpp_Practice$ cd "/home/maqsood/My_Data/Code_Playgr  
maqsood@mr-maqsood:~/My_Data/Code_Playground/Cpp/Cpp_Practice$ cd "/home/maqsood/My_Data/Code_Playground/Cpp/Cpp_Practice/" && g++ classTask1.cpp -o c  
lassTask1 && "/home/maqsood/My_Data/Code_Playground/Cpp/Cpp_Practice/"classTask1  
Enter a, b, c, d: 1 4 2 1  
4: b is greater  
maqsood@mr-maqsood:~/My_Data/Code_Playground/Cpp/Cpp_Practice$
```

TASK 02:

```
#include <iostream>  
using namespace std;
```

```
int main() {  
    int a, b, c, d, e;  
    cout << "Enter a, b, c, d, e: ";  
    cin >> a >> b >> c >> d >> e;
```

```
    int smallest, second, third, fourth, largest;
```

```
    // Find the smallest  
    if (a <= b && a <= c && a <= d && a <= e) {  
        smallest = a;  
    } else if (b <= c && b <= d && b <= e) {  
        smallest = b;  
    } else if (c <= d && c <= e) {  
        smallest = c;  
    } else if (d <= e) {  
        smallest = d;  
    } else {
```

```
    smallest = e;  
}
```

```
// Find the largest
```

```
if (a >= b && a >= c && a >= d && a >= e) {  
    largest = a;  
} else if (b >= c && b >= d && b >= e) {  
    largest = b;  
} else if (c >= d && c >= e) {  
    largest = c;  
} else if (d >= e) {  
    largest = d;  
} else {  
    largest = e;  
}
```

```
// Find the second
```

```
if (a != smallest && a != largest) {  
    second = a;  
} else if (b != smallest && b != largest) {  
    second = b;  
} else if (c != smallest && c != largest) {  
    second = c;  
} else if (d != smallest && d != largest) {  
    second = d;  
} else {  
    second = e;  
}
```

```
// Find the third
```

```
if (a != smallest && a != largest && a != second) {  
    third = a;  
} else if (b != smallest && b != largest && b != second) {  
    third = b;  
}
```

```
    } else if (c != smallest && c != largest && c != second) {  
        third = c;  
    } else if (d != smallest && d != largest && d != second) {  
        third = d;  
    } else {  
        third = e;  
    }
```

```
    // Find the fourth  
    if (a != smallest && a != largest && a != second && a !=  
third) {  
        fourth = a;  
    } else if (b != smallest && b != largest && b != second &&  
b != third) {  
        fourth = b;  
    } else if (c != smallest && c != largest && c != second &&  
c != third) {  
        fourth = c;  
    } else if (d != smallest && d != largest && d != second &&  
d != third) {  
        fourth = d;  
    } else {  
        fourth = e;  
    }
```

```
    // Find the fifth  
    if (a != smallest && a != largest && a != second && a !=  
third && a != fourth) {  
        cout << a << ' ';  
    } else if (b != smallest && b != largest && b != second &&  
b != third && b != fourth) {  
        cout << b << ' ';  
    } else if (c != smallest && c != largest && c != second &&  
c != third && c != fourth) {
```

```

        cout << c << ' ';
    } else if (d != smallest && d != largest && d != second &&
d != third && d != fourth) {
        cout << d << ' ';
    } else {
        cout << e << ' ';
    }

    cout << smallest << ' ' << second << ' ' << third << ' ' <<
fourth << ' ' << largest << '\n';

    return 0;
}

```

OUTPUT:



```

maqsood@mr-maqsood:~/My_Data/Code_Playground/Cpp/Cpp_Practice$ cd "/home/maqsood/My_Data/Code_Playground/Cpp/Cpp_Practice/" && g++ classTask2.cpp -o c
lassTask2 && "/home/maqsood/My_Data/Code_Playground/Cpp/Cpp_Practice/"classTask2
Enter five numbers: 1 3 2 4 5
Numbers in ascending order: 1 3 2 4 5 5
maqsood@mr-maqsood:~/My_Data/Code_Playground/Cpp/Cpp_Practice$

```

TASK 03:

```

#include <iostream>
using namespace std;

```

```

int main(void) {
    int quartely_water_bill, average_bill = 0;
    cout << "Enter your bill of your last four quaterly water: ";
    cin >> quartely_water_bill;

    average_bill = quartely_water_bill / 4;
    if (average_bill >= 75) {

```

```

cout << "$" << average_bill << " Bill.. Too much water is
used!\n";
} else {
if(average_bill >= 25 && average_bill < 75) {
cout << "$" << average_bill << " Bill.. Typical amount of water
is being used!\n";
} else {
cout << "$" << average_bill << " Bill.. Praising the user for
conserving water!\n";
}
}
}
}

```

OUTPUT:



```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
maqsood@mr-maqsood:~/My_Data/Code_Playground/Cpp/Cpp_Practice$ cd "/home/maqsood/My_Data/Code_Playground/Cpp/Cpp_Practice/" && g++ tempCodeRunnerFile.
cpp -o tempCodeRunnerFile && "/home/maqsood/My_Data/Code_Playground/Cpp/Cpp_Practice/"tempCodeRunnerFile
Enter your bill of your last four quaterly water: 600
$150 Bill.. Too much water is used!
maqsood@mr-maqsood:~/My_Data/Code_Playground/Cpp/Cpp_Practice$

```