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"On my honor, I have neither given nor received any unauthorized and/or inappropriate assistance for this exam. The work done on this exam is totally my own. I understand that by the school code, violation of these principles will lead to a zero grade and is subject to harsh discipline issues." ~~Heure~~

Q.1

a) Q. line A → Not Executed!

Q. line B → Not Executed!

Q. line C → Not Executed!

Q. line D → Exception Message 1

Q. line E → Exception Message 2

Q. line F → Exception Message 3

b)

A

B

B: LSE

A

B

A

print B 1

print B 2

print B 1

print A 1

Q2)

```
Public class Square extends GeometricObject {
```

```
    double side;
```

```
    public Square (double side) {
```

```
        this.side = side;
```

```
    }
```

```
    public double getArea() {
```

```
        return side * side;
```

```
    }
```

```
    public double getPerimeter() {
```

```
        return 4 * side;
```

```
    }
```

```
    public boolean equals (Object o) {
```

```
        Square squareObj = (Square) o;
```

```
        if (this.side == squareObj.side) {
```

```
            return true;
```

```
        } else {
```

```
            return false;
```

```
        }
```

Q3) a) When code 1 and code 2 gets the same number, they will print the same value. When they take an even number they will both print "1", and when they get odd, they will print "0".

b) #define DIVIDE(a,b) ((a)/(b))

```
enum hello {x, y=19, z, t=-5};
```

```
int main() {
```

```
    printf("%d\n%d\n%d\n%d\n", x, y, z, t);
```

```
    printf("%d", DIVIDE(3+3, 1+1));
```

```
    return 0;
```

```
}
```

Output:

0

19

20

-5

3

c) Output:

```
Main before p1: 10
In p1: 100
Main before p2: 100
In p2: 20
Main before p3: 20
In p3: 26
Main at the end: 26
-----
Main before p1: 30
In p1: 26
Main before p2: 26
In p2: 5
Main before p3: 5
In p3: 32
Main at the end: 32
```

d)

```
ln1 -> #include <stdio.h>
ln2 -> #define PI 3.14
ln3 -> int main() {
ln4 -> int radius, width, height;
ln5 -> float area, perimeter;
ln7 -> scanf("%d", &radius);
ln9 -> printf("\n Area of circle : %f", area);
ln11 -> printf("\n Perimeter : %d", perimeter);
ln18 -> return 0;
```

There is no "}" at the end.



Q<sub>2</sub>)

```
int main() {
```

```
    int N;
```

```
    printf("Enter an integer for N: ");
```

```
    scanf("%d", &N);
```

```
    for (int i=0; i<N; i++) {
```

```
        for (int j=0; j<i; j++) {
```

```
            printf("+");
```

```
        }
```

```
        for (int k=0; k<N-i; k++) {
```

```
            printf("*");
```

```
        }
```

```
        printf("\n");
```

```
    }
```

```
}
```