

1- Trace The Following Program And Predict The Output.

```

// www.gammal.tech

#include <stdio.h>

int main() {
    int x = 5;
    printf("%d\n", ++x);
    return 0;
}
```

Solution

6

2- Trace The Following Program And Predict The Output.

```

// www.gammal.tech

#include <stdio.h>

int main() {
    int x = 5;
    printf("%d\n", x++);
    return 0;
}
```

Solution

5

3- Trace The Following Program And Predict The Output.

```

// www.gammal.tech

#include <stdio.h>

int main() {
    int x = 5;
    printf("%d\n", --x);
    return 0;
}
```

Solution

4

4- Trace The Following Program And Predict The Output.

```

// www.gammal.tech

#include <stdio.h>

int main() {
    int x = 5;
    printf("%d\n", x--);
    return 0;
}
```

Solution

5

5- Trace The Following Program And Predict The Output.

```

// www.gammal.tech

#include <stdio.h>

int main() {
    int x = 5, y;
    y = 2 * ++x;
    printf("%d\n", y);
    return 0;
}
```

Solution

12

6- Trace The Following Program And Predict The Output.

```

// www.gammal.tech

#include <stdio.h>

int main() {
    int x = 5;
    printf("%d\n", ++x - x--);
    return 0;
}
```

Solution

0

7- Trace The Following Program And Predict The Output.

```
// www.gammal.tech
#include <stdio.h>

int main() {
    int x = 5;
    while (x > 0) {
        printf("%d\n", x--);
    }
    return 0;
}
```

Solution

```
5
4
3
2
1
```

8- Trace The Following Program And Predict The Output.

```
// www.gammal.tech
#include <stdio.h>

int main() {
    int x = 5, y = 2;
    printf("%d\n", x++ * y);
    return 0;
}
```

Solution

```
10
```

9- Trace The Following Program And Predict The Output.

```

// www.gammal.tech

#include <stdio.h>

int main() {
    int x = 5;
    x += ++x;
    printf("%d\n", x);
    return 0;
}
```

Solution

12

10- Trace The Following Program And Predict The Output.

```

// www.gammal.tech

#include <stdio.h>

int increment(int x) {
    return ++x;
}

int main() {
    int num = 5;
    printf("%d\n", increment(num));
    return 0;
}
```

Solution

6
