

Assignment 4

Iterative control

```
#include <stdio.h>

int main() {
    int i;

    // 1: Print "MySirG" 5 times
    printf("1:\n");
    for (i = 0; i < 5; i++) {
        printf("MySirG ");
    }
    printf("\n");

    // 2: Print the first 10 natural numbers
    printf("2:\n");
    for (i = 1; i <= 10; i++) {
        printf("%d ", i);
    }
    printf("\n");

    // 3: Print the first 10 natural numbers in reverse order
    printf("3:\n");
    for (i = 10; i >= 1; i--) {
        printf("%d ", i);
    }
    printf("\n");
}
```

```
// 4: Print the first 10 odd natural numbers
```

```
printf("4:\n");
```

```
for (i = 1; i <= 19; i += 2) {
```

```
    printf("%d ", i);
```

```
}
```

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

```
// 5: Print the first 10 odd natural numbers in reverse order
```

```
printf("5:\n");
```

```
for (i = 19; i >= 1; i -= 2) {
```

```
    printf("%d ", i);
```

```
}
```

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

```
// 6: Print the first 10 even natural numbers
```

```
printf("6:\n");
```

```
for (i = 2; i <= 20; i += 2) {
```

```
    printf("%d ", i);
```

```
}
```

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

```
// 7: Print the first 10 even natural numbers in reverse order
```

```
printf("7:\n");
```

```
for (i = 20; i >= 2; i -= 2) {
```

```
    printf("%d ", i);
```

```
}
```

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

```
// 8: Print squares of the first 10 natural numbers
printf("8:\n");
for (i = 1; i <= 10; i++) {
    printf("%d ", i * i);
}
printf("\n");

// 9: Print cubes of the first 10 natural numbers
printf("9:\n");
for (i = 1; i <= 10; i++) {
    printf("%d ", i * i * i);
}
printf("\n");

// 10: Print a table of 5
printf("10: Table of 5\n");
for (i = 1; i <= 10; i++) {
    printf("5 x %d = %d\n", i, 5 * i);
}

return 0;
}
```

1:

MySirG MySirG MySirG MySirG MySirG

2:

1 2 3 4 5 6 7 8 9 10

3:

10 9 8 7 6 5 4 3 2 1

4:

1 3 5 7 9 11 13 15 17 19

5:

19 17 15 13 11 9 7 5 3 1

6:

2 4 6 8 10 12 14 16 18 20

7:

20 18 16 14 12 10 8 6 4 2

8:

1 4 9 16 25 36 49 64 81 100

9:

1 8 27 64 125 216 343 512 729 1000

10: Table of 5

5 x 1 = 5

5 x 2 = 10

5 x 3 = 15

5 x 4 = 20

5 x 5 = 25