

EXAM #1 WED OCT 3

// given g (grade) print A, B, C, D, F

```
if (g >= 90)
{
    printf("A");
}
else
{
    if (g >= 80)
    {
        printf("B");
    }
    else
    {
        if (g >= 70)
        {
            printf("C");
        }
        else
        {
            if (g >= 60)
            {
                printf("D");
            }
            else
            {
                printf("F");
            }
        }
    }
}
```

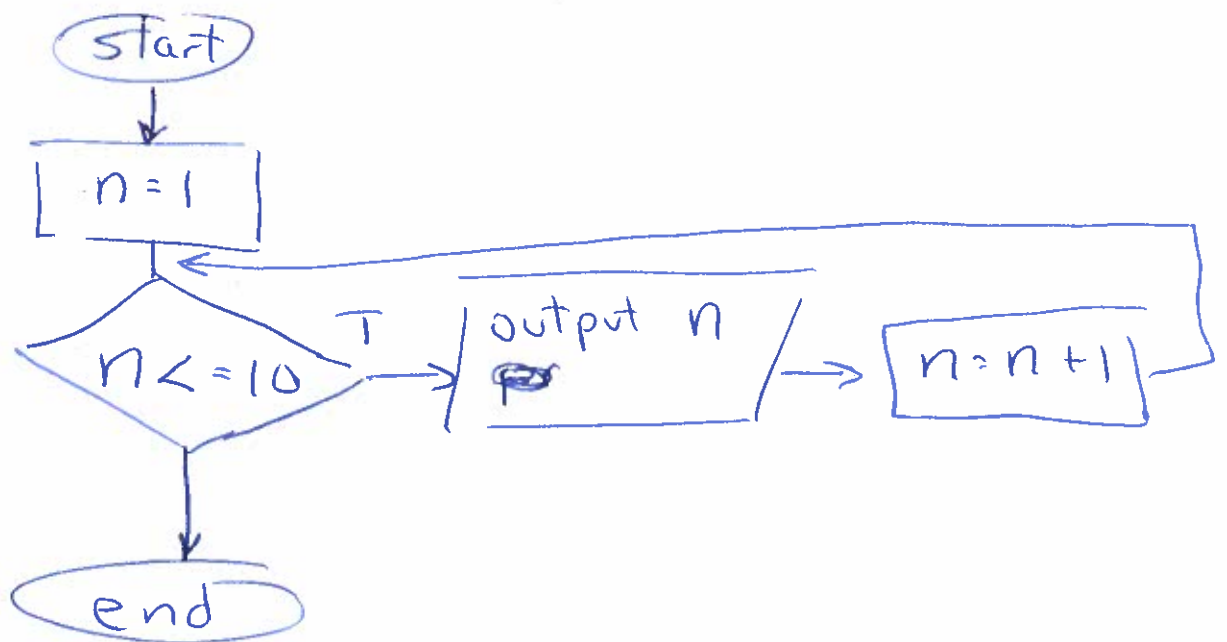
```
if ( g >= 90)
    printf("A");
else if ( g >= 80)
    printf("B");
else if ( g >= 70)
    printf("C");
else if ( g >= 60)
    printf("D");
else
    printf("F");
```

// Print values 1 ~~through~~ Through 10 ⁽³⁾

```
n = 1  
printf("%d", n);  
n = n + 1;
```

1 2 3 forever

Need way to detect when n is 10 ish

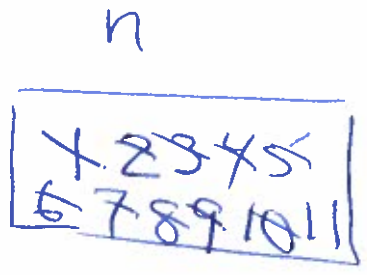


```

n = 1;
while (n <= 10)
{
    printf("%d", n);
    n = n + 1;
}

```

Screen
 12345678910



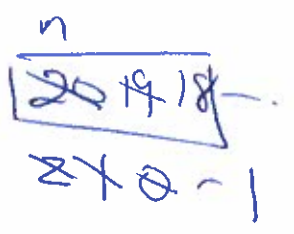
// Count down from 20 → 0

```

n = 20;
while (n >= 0)
{
    n--; // n = n - 1;
    printf("%d", n);
}

```

Screen
 19 18 17 16 15 --- 2 1 0 - 1



5

```

n = 20
while (n <= 20)
{
  printf("%d", n);
  n = n - 1;
}

```

screen
 20 19 18 ... 10 - 1 - 2

n
 20 19 18
 18 - 1 - 2

```

n = 20
while (n >= 0)
{
  printf("%d", n);
  n--;
}

```

screen
 20 19 ... 10

n
 20 19 18
 18 - 1

n = 5
m = 6

printf("%d %d", n, m); 5 6

printf("%d Hello %d", n, m); 5 Hello 6

printf("%d _ %d", n, m); 5 6

printf("%d \n %d \n", n, m); 5
6

special
special "escape" char
(nothing to do with esc on keyboard)

a = 12;

b = 456;

c = 7;

printf("%d _ %d _ %d", a, b, c); 12 _ 456 _ 7

printf("%-4d _ %04d _ %d", a, b, c); 12 456 7

%-4d Left Justify
%04d Right Justify (Zero Fill)

d = 3.14159f }
e = 7.0f }

printf("%f %f", d, e); 3.141590 7.000000

printf("%.2f %.2f", d, e); 3.14 7.00

printf("%.3f %.8.3f", d, e);

