Assignment 3

1. onetwo

2. a)      for ( i = 1; i <= 128; i *= 2) {
                 printf ("%d ", i);
           }

   b)      for ( i = 9384; i > 0; i /= 2) {
                 printf ("%d ", i);
           }

3. a)      Before: 1 2 4 8 16 32 64 128
           After:   1 2 4 8 16 32 64 128

   b)      Before: 9384 4692 2346 1173 586 293 146 73 36 18 9 4 2 1
           After:   9384 4692 2346 1173 586 293 146 73 36 18 9 4 2 1

4. a)      Hello

```
6
7      n = 1;
8      a = 1;
9
10     if (a > n && n > 0)
11     {
12       printf("Good");
13     }
14
15     else
16     {
17       printf("Hello");
18     }
19
```

   b)      1 2 3 4 5 6 7 8 9 10

```
7      k = 1;
8
9      while (k <= 10)
10     {
11       printf("%d ", k);
12       k += 1;
13     }
14
```

c)    1 2 3 4 5 6 7 8 9 10

```
7      k = 1;
8
9      do
10     {
11        printf("%d ", k);
12        k += 1;
13     } while (k <= 10);
14
```

d)    10.0000 3.1623 1.7783 1.3335 1.1548 1.0746 1.0366 1.0182 1.0090 1.0045
      1.0023 1.0011

```
6      float x;
7
8      for ( x = 10.0; x > 1.001; x = sqrt(x))
9      {
10        printf("%.4f ", x);
11     }
12
```