

COSC 2P91 – Assignment 1

Sample Output

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February 5, 2015

```
matt@matt-laptop-ubuntu:~/Desktop/2p91/assign1$ ./calculate factorial 20
20!=2432902008176640000
```

```
matt@matt-laptop-ubuntu:~/Desktop/2p91/assign1$ ./calculate fibonacci 75
fib(75)=21111485077978050
```

```
matt@matt-laptop-ubuntu:~/Desktop/2p91/assign1$ ./factorize
```

1. Factors

2. Prime Factors

0. Stop

1

Number to factorize: 18

1 2 3 6 9 18

1. Factors

2. Prime Factors

0. Stop

2

Number to factorize: 18

2 3 3

1. Factors

2. Prime Factors

0. Stop

0

```
matt@matt-laptop-ubuntu:~/Desktop/2p91/assign1$ ./fractions
```

Enter fraction (0 to end): 44/11

4/1

Enter fraction (0 to end): 11/44

1/4

Enter fraction (0 to end): 12

12/1

Enter fraction (0 to end): 1/12

1/12

Enter fraction (0 to end): 0

```
matt@matt-laptop-ubuntu:~/Desktop/2p91/assign1$ ./hanoi 3
```

Initial

```
  [ | ]      |      |
[ | ]      |      |
[ | ]      |      |
=====
```

Move 1 from A to C

```
  |      |      |
[ | ]      |      |
[ | ]      |      [ | ]
=====
```

Move 1 from A to B

```
  |      |      |
  |      |      |
  |      |      |
```

```
[ | ] [ | ] [ ]
=====
```

Move 1 from C to B

```
  |      |
  |      |
[ | ] [ | ]
=====
```

Move 1 from A to C

```
  |      |
  |      |
  |      |
  |      |
[ | ] [ | ] [ | ]
=====
```

Move 1 from B to A

```
  |      |
  |      |
[ | ] [ | ] [ | ]
=====
```

Move 1 from B to C

```
  |      |
  |      |
[ | ] [ | ] [ | ]
=====
```

Move 1 from A to C

```
  |      |
  |      |
  |      |
  |      |
[ | ] [ | ] [ | ]
=====
```

7 moves