

Quiz 4

17 October 2012

The following program fragments use loops. What is the output of each?

1.

```
int i = 0;
int n = 0;
while(i <= 4) {
    i = i + 1;
    n = n + i;
    cout << i << "\n";
}
cout << n << "\n";
```

2.

```
int a = 8;
while(a > 0) {
    cout << a << "\n";
    a /= 2;
}
```

3.

```
int p = 1;
for(int i = 1; i <= 10; i++) {
    if(i%3 == 0) {
        p += i;
    }
}
cout << p << "\n";
```

4.

```
for(int i = 2; i <= 4; i++) {
    for(int j = 2; j < 4; j++) {
        cout << i*j << " ";
    }
    cout << "\n";
}
```