Problem 1

```
int a = 0, b = 0;
for (i = 0; i < N; i++)
  {
      for (j = 0; j < N; j++)
      {
        a = a + j;
      }
  }
for (k = 0; k < N; k++)
  b = b + k;
```

Problem 1

Problem 2

```
if(x < 7)
   print "x is less than 7";
else
  {
    for (i = 1; i ≤ n; i++)
        print i;
  }
```

Problem 3

```
for (x = 1; x ≤ n; x*=2)
    print x;
```

Problem 4

```
int a = 0, i = N;
while (i > 0) {
    a += i;
    i /= 2;
}
```

Problem 5

```
for (x = 1; x ≤ n; x++)
  for (y = 1; y ≤ n; y++)
    for (z = 1; z ≤ n; z++)
      print x & y & z;
```

Problem 6

```
int a = 0;
for (i = 0; i < N; i++) {
    for (j = N; j > i; j--) {
        a = a + i + j;
    }
}
```