

Assignment 3

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```
#include <iostream>
#include <math>
using namespace std;
```

```
int gcd(int a, int b)
{
    if (b == 0) {
        return a;
    }
    return gcd(b, a % b);
}
```

```
int generatePrimeNumber()
{
    int p, q, n;
    p = 11;
    q = 19;
    n = p * q;
    return n;
}
```

```
int BlumBlumShub(int seed, int n) {
    return (int (seed, 2) % 2);
}
```

~~for~~

P.T.O

```
for (int i=0; i<10; i++) {
```

```
    seed = BlumBlumShub(seed * n);
```

```
    cout << "Random Number " << i+1 << " : " << seed << endl;
```

```
}
```

```
return 0
```

```
}
```