FERMAT PRIMALITY TEST

**bool probablyPrimeFermat(int n, int iter=5) {**

**if (n < 4)**

**return n == 2 || n == 3;**

**for (int i = 0; i < iter; i++) {**

**int a = 2 + rand() % (n - 3);**

**if (binpower(a, n - 1, n) != 1)**

**return false;**

**}**

**return true;**

**}**