**Bit Sieve, faster prime number calculation.**

**Tested on: Spoj TDPRIMES**

int status[(MX/32)+2];

void bitSieve()

{

int i, j, sqrtN,cnt=0;

sqrtN = int( sqrt( MX ) );

printf("2\n");

cnt++;

for( i = 3; i <= sqrtN; i += 2 )

if(!(status[i>>5] & (1<<(i&31))))

{

if(!(cnt%100)) printf("%d\n",i);

cnt++;

for( j = i\*i; j <= MX; j += (i<<1) )

status[j>>5]= status[j>>5] | (1<<(j&31));

}

for(i=sqrtN+1;i<=MX;i+=2)

if(!(status[i>>5] & (1<<(i&31))))

{

if(!(cnt%100)) printf("%d\n",i);

cnt++;

}

return;

}