int main()

{

int exp = 2;

int num = 1;

int n;

while ( exp <= n )

{

num = num \* 2;

exp = exp2;

}

return BS ( num / 2, num, sqrt(exp), exp);

}

int BS( int lo, int hi, int loex, int hiex)

{

int mid;

int midex;

if ( lo == hi )

{

return hi;

}

mid = ( lo + hi ) / 2;

midex = sqrt( loex \* hiex );

if ( midex <= n )

{

return BS ( mid, hi, midex, hiex);

}

else

{

return BS ( lo, mid, loex, midex);

}

}