// viet ct tim bien tuong thap Ha Noi sau khi chuyen dia

#include <iostream>

using namespace std;

void ThapHaNoi ( int &A, int &B, int &C, int n, int &k ) // k la buoc chuyen thu k

{

if ( k > 0) // neo thu nhat

{

// xay ra khi n > 0: n = 1 ( neo thu 2 ) va n > 1 ( quy nap )

if ( n == 1 ) // neo thu 2 va thap co 1 dia

{

A--; B++; k--; // Giam nguon, tang dich

}

else

{ // khong dao thu tu dia, dau nguon, giua dich, cuoi trung gian

ThapHaNoi ( A, C, B, n - 1, k ); // chuyen n - 1 dia sang C

ThapHaNoi ( A, B, C, 1, k ); // chuyen 1 dia con lai o A sang B

ThapHaNoi ( C, B, A, n - 1, k ); // chuyen n -1 dia tu C sang B

}

}

}

int main ()

{

int n, k, A, B, C;

A = B = C = 0; // dau tien so dia o 3 cot =0

cin >> n >> k;

A = n; // dia o cot A bang tat ca dia

ThapHaNoi ( A, B, C, n, k );

cout << A << " " << B << " " << C << endl;

system ( "pause");

return 0;

}