// C Program to print the Fibonacci series using recursion

#include <stdio.h>

// first two values

int prev1 = 1;

int prev2 = 0;

// recursive function to print the fibonacci series

void fib(int n)

{

if (n < 3) {

return;

}

int fn = prev1 + prev2;

prev2 = prev1;

prev1 = fn;

printf("%d ", fn);

return fib(n - 1);

}

// function that handles the first two terms and calls the

// recursive function

void printFib(int n)

{

// when the number of terms is less than 1

if (n < 1) {

printf("Invalid number of terms\n");

}

// when the number of terms is 1

else if (n == 1) {

printf("%d ", 0);

}

// when the number of terms is 2

else if (n == 2) {

printf("%d %d", 0, 1);

}

// number of terms greater than 2

else {

printf("%d %d ", 0, 1);

fib(n);

}

return;

}

// driver code

int main()

{

int n = 9;

printFib(n);

return 0;

}