

[LAB3\_5] Fibonacci sequence can be defined as a list of numbers that starts with 0 and 1, and every subsequent number is the sum of the previous two. For example, the list of Fibonacci sequence up to 30 would be **0, 1, 1, 2, 3, 5, 8, 13, 21**.

Write a C program to generate the Fibonacci sequence up to a certain number n without using array.

#### Input

n denotes an integer, where  $1 \leq n \leq 1,000$

#### Output

Print the subsequent numbers of Fibonacci sequence up to n, separating a white space.

Input sample	Output sample
30	0 1 1 2 3 5 8 13 21
1	0 1