


AV6

1+5 = 6/17

	National University of Computer and Emerging Sciences (Lahore)			
	Course:	Applied Programming		
	Section:	MCS-1A	Semester:	Spring 2024
	Duration:	40 minutes	Total Marks:	20/17
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Question 1: Write a C++ function `printFibonacci(int n)` which prints the Fibonacci numbers till the  $n$ th term inclusively by using FIFO Queue data structure. You may assume that Queue data structure is already implemented.

Example:

Input:  $n = 7$

Output: 0 1 1 2 3 5 8

0 1 2 3 4 5 6  
 1 → i  
 0 1 1

Rough 0 1 1 2

int i = 0;  
 while (i < size)

int n = 7;  
 int i = 0;  
 while (i == n)  
 {  
 cout << queue[i];  
 cout << queue[i + 1];  
 cout << queue[(i - 1) + i];  
 i++;  
 }  
 Incorrect

1/6

{  
 cout << queue[i];  
 cout << queue[i + 1];  
 i++;  
 while (i < n)  
 {  
 cout << i;  
 cout << i + (i + 1);  
 i++;  
 }  
 for loop

0 1 2 3 4 5 6 7  
 i i i → i

0 1 1 2 3 5 8 Page 1

0 1 3 5



