Stack and Queues *Required	
If the characters 'D', 'C', 'B', 'A' are placed in a queue (in that order), and then removed one at a time, in what order will they be removed? * ABDC ABCD DCAB DCBA	1 point
If the characters 'D', 'C', 'B', 'A' are placed in a stack (in that order), and then removed one at a time, in what order will they be removed? * ABDC DCBA DCAB ABCD	1 point
Predict the output of code * assume no compilation error int values[] = {1, 3, 5, 7, 9, 11, 13, 15, 17, 19 }; Stack s; //consider stack of integers for (int 1 = 0; i < 10; i++)	2 points
<pre>What fun() function does? * void fun(int n) { Queue q; enqueue(&q, 0); enqueue(&q, 1); for (int i = 0; i < n; i++) { int a = dequeue(&q); int b = dequeue(&q); enqueue(&q, b); enqueue(&q, a+b); print(a); } }</pre>	2 points
Following is a C like pseudo-code for a function that takes a Queue as an argument, and uses a stack S to do the processing. What does the function do in general? * void fun(Queue *Q) { Stack S; // Say it creates an empty stack S // Run while Q is not empty while (!isEmpty(Q)) { // deQueue an item from Q and push the dequeued item to S push(&S, deQueue(Q)); } // Run while Stack S is not empty while (!isEmpty(&S)) { // Pop an item from S and enqueue the poppped item to Q enQueue(Q, pop(&S)); }	4 points
Reversing the order of queue Submit	

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