Stack and Queues

Total points 4/10 ?



| ✓ | 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? * | 1/1 |
|----------|---|----------|
| 0 | ABDC | |
| 0 | ABCD | |
| 0 | DCAB | |
| • | DCBA | ✓ |
| | | |
| | | |
| ~ | 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? * | 1/1 |
| 0 | ABDC | |
| 0 | DCBA | |
| 0 | DCAB | |
| • | ABCD | ✓ |
| | | |

2/2

```
✓ Predict the output of code *
```

assume no compilation error

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В

```
X What fun() function does? *
                                                                      .../2
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);
}
0
                                                                     X
Correct answer
Fibonacci series printed
```

```
X Following is a C like pseudo-code for a function that takes a Queue as an.../4
    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));
}
Reversing the order of queue
                                                                       X
Correct answer
Reversing Queue Elements
```

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