CSE 332: Data Structures and Parallelism

QuickCheck: `WorkLists` (due Thursday, January 5)

Name:

0. $\mathcal{O}$dd Jobs

For each of the following scenarios, choose
(1) an ADT: `Stack` or `Queue`, and
(2) a data structure: `Array` or `LinkedList with front` or `LinkedList with front and back`
Then, explain why your choice works better than the other options.

`WorkList` Situations

(a) You're designing a tool that checks code to verify that all opening brackets, braces, parentheses, ... have closing counterparts.

(b) Disneyland has hired you to find a way to improve the processing efficiency of their long lines at attractions. There is no way to forecast how long the lines will be.

(c) A sandwich shop wants to serve customers in the order that they arrived, but also wants to look ahead to know what people have ordered and how many times to maximize efficiency in the kitchen.