

Priority Queue Worksheet

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

1. Suppose that the sequence of operations

P R I O * R * * I * T * Y * * * Q U E * * * U * E

(where a letter means “*insert that letter*” and an asterisk means “*remove the maximum*”) is applied to an initially empty priority queue. Give the sequence of values returned by the *remove the maximum* operations.

Output: R R P I T Y I I U Q E U

2. Repeat for the scenario where the asterisk means “*remove the minimum*”.

Output: I O P I R R T Y E Q U U