1. If i=1, j=2, and k=3, what is the result of the evaluation of each of the following expressions?

   \[ x = ++i - j \times k; \]
   \[ i = x = \]

   \[ x = k \% j + i--; \]
   \[ i = x = \]

   \[ k^* = j + 1; \]
   \[ j = k = \]

   \[ k = k \% ++j; \]
   \[ j = k = \]

2. If i=1, j=2, and k=3, what is the return result for each of the following expressions?

   \[ \text{return } i < k \ ? \ j : i; \]
   \[ \text{__________} \]

   \[ \text{return } ++i < --k \ ? \ j : k; \]
   \[ \text{__________} \]

3. Write a single if expression that tests if variable \( i \) is in the range from 0<i<n.

4. Write a single if statement that tests if variable \( i \) is outside the range from 0<i<n.

5. Write a switch statement that performs one of three actions based on the value of a variable \( i \). If \( i=0 \) set \( j=0 \). If \( i=1 \), increment \( j \). If \( i=2 \), decrement \( j \). If \( i \) has any other value, do nothing.