1.

pre-lab.cpp

```
 9 #include <stdlib.h>
 8 #include <stdio.h>
 7
 6 /**
 5  * Calculate the on period of a PWM signal for controlling a servomotor. The C++
 4  * function receives the servo position (0 to 180 degrees) and returns the time
 3  * in micro seconds that PWM signal should be on during each period so that the
 2  * RC servo moves to the specified servo position.
 1  *
 0  * @param position, an integer representing the servo position
 1  * @return integer, time in micro seconds
 2  */
 3 int degreeToOnDelay(int position) {
 4     if (position > 180 || position < 0)
 5         printf("Position not inclusively between 0 and 180.\n");
 6         exit(0);
 7
 8     return position * 10 + 600;
 9
10 }
```

2.

a).

CombineFiles.sh

```
3 # !/bin/bash
2 # cli - args . bash
1
0 $(cat $2 > $1)
1 $(cat $3 >> $1)
```

b).

wc2.sh

```
5 # !/bin/bash
4 # cli - args . bash
3
2 source CombineFiles.sh temp.txt $1 $2
1 wc temp.txt
0 rm temp.txt
```