Assignment 4
Pointers and Dynamic Memory allocation

Question 4

1. The first error is there is no deallocation of the pointers after they have been created dynamically which leads to memory leaks, it can be fixed by adding delete [] ptr;
2. Secondly, the second for loop is going out of bounds, trying to access the data, it does not have access to. It can be fixed by:
   for (int j = i –1; j >= 0; j--)
3. Thirdly, after each iteration, it is allocating new memory for it which might be inefficient. To optimize it, it should be allocated only once before the loop starts.