```
private QueueTAD<Game> selectionSort(ArrayList<Game> list){
          QueueTAD<Game> queue = new QueueTAD<>();
                                                                                                                   1
          for (int i = 0; i < list.size(); i++) {</pre>
                                                                                                                n+1
               Game minor = list.get(i);
                                                                                                                   n
               int pos = i;
               for (int j = i + 1; j < list.size(); j++) {</pre>
                                                                                                              n(n-1)
                     if (minor.compareTo(list.get(j)) > 0) {
                                                                                                              n(n-1)
                           minor = list.get(j);
                                                                                                              n(n-1)
                           pos = j;
                     }
               }
               Game temp = list.get(i);
                                                                                                                   n
               list.set(i, minor);
                                                                                                                   n
               list.set(pos, temp);
                                                                                                                   n
         }
          for (Game game : list) {
                                                                                                                n+1
               queue.add(game);
                                                                                                                   n
          }
         return queue;
         C_{1} + C_{2} + C_{12} + C_{14} + C_{3}n + C_{4}n + C_{5}n + C_{5}\left(\frac{n(n-1)}{2}\right) + C_{6}\frac{n(n-1)}{2} + C_{7}\frac{n(n-1)}{2} + C_{8}\frac{(n(n-1))}{2} + C_{9}n + C_{10}n + C_{11}n + C_{12}n + C_{13}n
             C_1 + C_2 + C_{12} + C_{14} + n(C_3 + C_4 + C_5 + C_9 + C_{10} + C_{11} + C_{12} + C_{13}) + \frac{n(n-1)}{2}(C_5 + C_6 + C_7 + C_8)
                                            A + Bn + C\left(\frac{n(n-1)}{2}\right)
                                                       O(n^2)
```

Insertion sort:

```
private QueueTAD<Game> insertionSort(ArrayList<Game> list){
                                                                      QueueTAD<Game> queue = new QueueTAD<>();
                                                                                                                                                                                                                                                                                                                                                                                                                                            1
                                                                       for (int i = 0; i < list.size(); i++) {</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                            n+1
                                                                                            Game minor = list.get(i);
                                                                                                                                                                                                                                                                                                                                                                                                                                          \frac{n(n-1)}{\frac{2}{2}} + n
\frac{n(n-1)}{\frac{2}{2}}
\frac{n(n-1)}{\frac{2}{2}}
\frac{n(n-1)}{\frac{2}{2}}
\frac{n(n-1)}{2}
                                                                                            for (int j = i + 1; (j < list.size()); j++) {</pre>
                                                                                                                    if (minor.compareTo(list.get(j)) > 0) {
                                                                                                                                          Game temp = list.get(j);
                                                                                                                                          list.set(j, minor);
                                                                                                                                          list.set(i, temp);
                                                                                                                    }
                                                                                            }
                                                                       }
                                                                      for (Game game : list) {
                                                                                                                                                                                                                                                                                                                                                                                                                                            n+1
                                                                                              queue.add(game);
                                                                                                                                                                                                                                                                                                                                                                                                                                            n
                                                                       }
                                                                       return queue;
    C_1 + C_9 + C_{11} + C_2 n + C_3 n + C_4 n + C_9 n + C_{10} n + C_4 \frac{n(n-1)}{2} + C_5 \frac{n(n-1)}{2} + C_6 \frac{n(n-1)}{2} + C_7 \frac{n(n-1)}{2} + C_8 
                                                          C_1 + C_9 + C_{11} + n(C_2 + C_3 + C_4 + C_9 + C_{10}) + \frac{n(n-1)}{2}(C_4 + C_5 + C_6 + C_7 + C_8)
                                                                                                                                                                                    A + Bn + C\left(\frac{n(n-1)}{2}\right)
                                                                                                                                                                                                                            O(n^2)
```