**Exercise 17**

**Solve the following using algorithms:**

**1.** Create a *std::deque* and fill it with random scientific numeric data. Sort the data in ascending order.

**2.** Use a *std::list of strings* and populate it with names of random objects. Sort the container such that vowels are first, followed by consonants.

**3.** Create a *std::vector of strings* and fill it with names of players. Sort the container based on the length of the names.

**4.** Use a *std::deque* and fill it with random object names. Remove names that either begin with a vowel letter or whose length exceeds ten letters.

**5.** Create a *std::string* and assign it a random sentence. First, remove all whitespace letters from the sentence. Then, remove all common punctuation marks.