A group of art museums wish to create exhibitions drawing from the paintings in their collections. The possible exhibitions could be

1) all the paintings from one **time period**  
2) all the paintings from a given **country**  
3) all the paintings of a certain **painter**  
4) all the paintings of a certain **genre** such as Renaissance or Classical  
5) all the paintings using a certain **medium** such as Oil or Watercolor  
6) all the paintings in a certain **size** range.

The client program determines which of the museums the exhibition will use and which one of the six categories. For each exhibition the output will be a list of paintings giving the **artist’s name, the category** and **the title of the painting**.

Each museum has a list of paintings that are in a text file. This text file contains the necessary information for each painting with the **number of paintings** for that museum as the first line of the text file. Use one client main that creates the 6 exhibitions with a varying number of museums for each exhibition. I will supply the text files for each museum.