package Generics;  
  
import java.util.ArrayList;  
import java.util.Arrays;  
import java.util.List;  
  
public class WildCardDemo {  
 public static void main(String[] args) {  
 List<?> list1=Arrays.*asList*(2,"jack",3,4,'a');  
 List<? extends Number> list2=Arrays.*asList*(2,3,4,8.5f);  
 List<? super Integer> list3=Arrays.*asList*(2,3,4,8.5f,"adasd");  
 List<? super Integer> list4=Arrays.*asList*(2,3,4);  
 List<String> list5=Arrays.*asList*("Max","jack","a");  
 List<Integer> list6=Arrays.*asList*(2,3,4);  
 List<Float> list7=Arrays.*asList*(8.5f);  
  
 WildCardDemo d=new WildCardDemo();  
 //list1  
 d.printUnknownList(list1);  
// d.printUpperBound(list1); --> Compile time error  
// d.printLowerBound(list1); --> Compile time error  
  
 //list2  
 d.printUnknownList(list2);  
 d.printUpperBound(list2);  
// d.printLowerBound(list2); --> Compile time error  
  
 //list3  
 d.printUnknownList(list3);  
// d.printUpperBound(list3); --> Compile time error  
 d.printLowerBound(list3);  
  
 //list4  
 d.printUnknownList(list4);  
// d.printUpperBound(list4); --> Compile time error  
 d.printLowerBound(list4);  
  
 //list5  
 d.printUnknownList(list5);  
// d.printUpperBound(list5); --> Compile time error  
// d.printLowerBound(list5); --> Compile time error  
  
 //list6  
 d.printUnknownList(list6);  
 d.printUpperBound(list6);  
 d.printLowerBound(list6);  
  
 //list7  
 d.printUnknownList(list7);  
 d.printUpperBound(list7);  
// d.printLowerBound(list7); --> Compile time error  
 }

public void printUnknownList(List<?> newList){  
 System.*out*.println(newList);  
 }  
 public void printUpperBound(List<? extends Number> newList){  
 System.*out*.println(newList);  
 }  
 public void printLowerBound(List<? super Integer> newList){  
 System.*out*.println(newList);  
 }  
}

C:\Users\Roystan\.jdks\openjdk-21.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\lib\idea\_rt.jar=60491:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\bin" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -Dsun.stderr.encoding=UTF-8 -classpath C:\Users\Roystan\IdeaProjects\JavaWorkspace\out\production\JavaWorkspace Generics.WildCardDemo

[2, jack, 3, 4, a]

[2, 3, 4, 8.5]

[2, 3, 4, 8.5]

[2, 3, 4, 8.5, adasd]

[2, 3, 4, 8.5, adasd]

[2, 3, 4]

[2, 3, 4]

[Max, jack, a]

[2, 3, 4]

[2, 3, 4]

[2, 3, 4]

[8.5]

[8.5]

Process finished with exit code 0