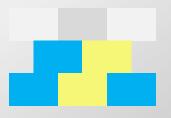
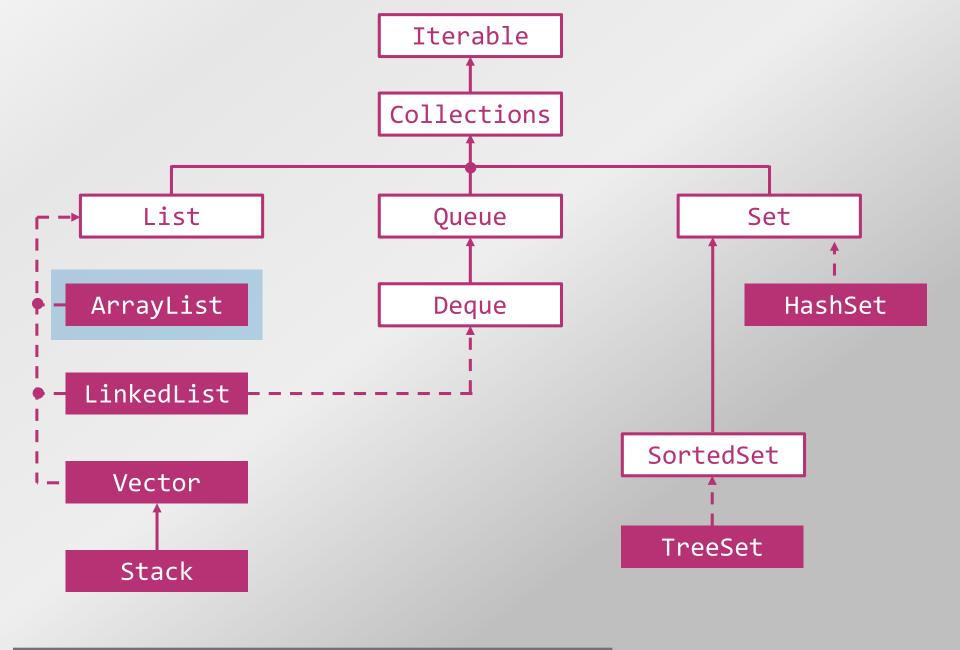


THE <ArrayList> CLASS





```
(FIXED SIZED ARRAY)
```

```
(DYNAMIC SIZED ARRAY)
```

```
DATA
NAME TYPE

int arr[] = new int[5];

DATA KEYWORD SIZE
TYPE
```

EXAMPLE:

```
public class Book {
    //fields
    private String title;
    private String author;
    //constructor
    Book(String title, String author){
        this.title = title;
        this.author = author;
    //methods
    public String getTitle() {
        return title;
    public void setTitle(String title) {
        this.title = title;
    public String getAuthor() {
        return author;
    public void setAuthor(String author) {
        this.author = author;
```

```
import java.util.ArrayList;
public class Library {
   //fields
    static ArrayList<Book> books = new ArrayList<>();
    //methods
    public static int numberOfBooks(){
        return books.size();
    public static void addBook(String title, String author){
        Book newBook = new Book(title,author);
        books.add(newBook);
    public static String removeBook(String title){
        String message = "There is no such book";
        for(int i=0; i<books.size();i++){</pre>
            if(books.get(i).getTitle().equals(title)){
                books.add(books.remove(i));
                message = "The book <"+title+ "> is removed";
                break;
        return message;
```

```
! Take a look at this video: LodówkaApp.mp4
☐ CREATE A CLASS CALLED <Jedzenie> THAT
CONTAINS TWO FIELDS: THE FIRST FIELD OF THE String
CLASS CALLED <nazwa> AND THE SECOND FIELD OF THE
int DATATYPE CALLED <ilość>.
☐ ADD A CONSTRUCTOR THAT TAKES AS PARAMETERS THE
FOOD NAME AND ITS AMOUNT AND THEN ASSIGNS THEM TO
<nazwa> AND <ilość>.
LI CREATE A CLASS CALLED < Lodówka> THAT CONTAINS AN
ARRAY OF OBJECTS OF THE < Jedzenie > CLASS. USE THE
<ArrayList> CLASS TO KEEP THESE OBJECTS.
☐ ADD THREE METHODS TO THE < Lodówka> CLASS:
  - dodaj()
                TO ADD A PRODUCT TO THE FRIDGE,
  weź()
                TO TAKE A PRODUCT FROM THE FRIDGE,
  - wyświetl() → TO PRINT WHAT IS IN THE FRIDGE. 06/07
```

```
☐ CREATE A CLASS CALLED <LodówkaApp> THAT CONTAINS THE <main> METHOD.
```

```
□ IN THE MAIN PROGRAM ASK A USER TO CHOOSE AN OPERATION "dodaj", "weź", "wyświetl", OR "zamknij". DEPENDING ON THE USER'S INPUT CALL dodaj(), weź() OR wyświetl() METHOD. WHEN THE USER ENTERS "zamknij", END THE PROGRAM.
```

☐ USING THE **while** LOOP KEEP ASKING THE USER TO CHOOSE AN OPERATION UNTIL S/HE ENTERS "zamknij".

```
int i = 5;
while(i > 0){
    i--;
    // your code
}
```

```
while(true){
    // your code
}
INFINITE LOOP
```

THE WHILE LOOP