



Republic of the Philippines  
Laguna State Polytechnic University  
Province of Laguna



### Activity Task

Please create a new linked list of type string named MOVIES and add the following items to the list:

1. Add "Avatar" as the first item in the list
2. Create a `LinkedListNode<String>` named `titanic` with the value "Titanic" and add it to the last position in the list.
3. Add "Star Wars: The Force Awakens" after `Titanic` using the "Titanic" node as an anchor.
4. Remove the "Star Wars: The Force Awakens" and `Titanic` on your list
5. Count the number of movies on your list.
6. Find if the movie `Avatar` is on your list.

### Source Code:

```
namespace ConsoleApp4
{
    class Program
    {
        static void Main(string[] args)
        {
            //Creating String list named Movies
            LinkedList<String> Movies = new LinkedList<String>();

            //Adding value at list named Avatar
            Movies.AddFirst("Avatar");

            //Displaying value
            Console.WriteLine("List value after adding Avatar:");
            foreach (var x in Movies) Console.WriteLine(x);

            //Creating List node String named titanic and its value on the list
            LinkedListNode<String> titanic = Movies.AddLast("Titanic");

            //List value after adding Titanic on the list
            Console.WriteLine("\nList value after adding Titanic:");
            foreach (var x in Movies) Console.WriteLine(x);
        }
    }
}
```

```

/* Using node titanic to search the value "Titanic" on list
   and add the given value before the "Titanic" */
Movies.AddAfter(titanic, "Star Wars: The Force Awakens");

//List value after adding Star wars on the list
Console.WriteLine("\nList value after adding Star wars:");
foreach (var x in Movies) Console.WriteLine(x);

//Removing both starwars and titanic on the list
Movies.Remove("Star Wars: The Force Awakens");
Movies.Remove("Titanic");

//List value after removing Star wars & Titanic on the list
Console.WriteLine("\nList value after Star wars & Titanic on the list:");
foreach (var x in Movies) Console.WriteLine(x);

//Displaying number of value ont the Movie linkedlist
Console.WriteLine("\nNumber of movies: "+Movies.Count);

//Finding movie avatar on the current lingked list
if (Movies.Contains("Avatar")) Console.Write("\nMovie Avatar found!!");
else Console.Write("\nMovie did not found!!");

Console.ReadKey(true);
}

```

## Output:

```

List value after adding Avatar:
Avatar

List value after adding Titanic:
Avatar
Titanic

List value after adding Star wars:
Avatar
Titanic
Star Wars: The Force Awakens

List value after Star wars & Titanic on the list:
Avatar

Number of movies: 1

Movie Avatar found!!_

```