

Code: <https://github.com/Flips2001/Data-Structure-and-Algorithm/tree/7ec06cf063aa38a152a7fc523efbc2cc8d99a131/DoubleLinkedList/src>

**Deliverable 4:** I would be  $O(n/2)$ , but in Big O notation we simplify to the  $O(n)$  because we don't care about constant factors.

## Deliverable 8:

```
/Library/Java/JavaVirtualMachines/jdk-17.0.2.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA.app/Contents/lib/idea_rt.jar=60639:/Applications/IntelliJ IDEA.app/Contents/bin -Dfile.encoding=UTF-8 -classpath /Users/philiplechenauer/
Title: The Shawshank Redemption, Director: Frank Darabont, Release Year: 1994<==>Title: The Godfather, Director: Francis Ford Coppola, Release Year: 1972<==>Title: The Godfather: Part II, Director: Francis Ford Coppola, Release Year: 1974<==>Title
Title: The Shawshank Redemption, Director: Frank Darabont, Release Year: 1994<==>Title: The Godfather, Director: Francis Ford Coppola, Release Year: 1972<==>Title: The Godfather: Part II, Director: Francis Ford Coppola, Release Year: 1974<==>Title
Title: The Matrix, Director: The Wachowski Siblings, Release Year: 1999<==>Title: Interstellar, Director: Christopher Nolan, Release Year: 2014<==>Title: Titanic, Director: James Cameron, Release Year: 1997<==>Title: Fight Club, Director: David Fi
Found at index: 0
Title: Interstellar, Director: Christopher Nolan, Release Year: 2014<==>Title: Titanic, Director: James Cameron, Release Year: 1997<==>Title: Fight Club, Director: David Fincher, Release Year: 1999<==>Title: Forrest Gump, Director: Robert Zemeckis
Process finished with exit code 0

philiplechenauer/Documents/Uni/Auslandssemester/Truman/Data Structures & Algorithms/DoubleLinkedList/out/production/DoubleLinkedList:/Users/philiplechenauer/.m2/repository/org/jetbrains/annotations/24.0.0/annotations-24.0.0.jar Main
1974<==>Title: The Dark Knight, Director: Christopher Nolan, Release Year: 2008<==>Title: Inception, Director: Christopher Nolan, Release Year: 2010<==>Title: Forrest Gump, Director: Robert Zemeckis, Release Year: 1994<==>Title: Fight Club, Direc
1974<==>Title: The Dark Knight, Director: Christopher Nolan, Release Year: 2008<==>Title: Inception, Director: Christopher Nolan, Release Year: 2010<==>Title: Forrest Gump, Director: Robert Zemeckis, Release Year: 1994<==>Title: Fight Club, Direc
ctor: David Fincher, Release Year: 1999<==>Title: Forrest Gump, Director: Robert Zemeckis, Release Year: 1994<==>Title: Inception, Director: Christopher Nolan, Release Year: 2010<==>Title: The Dark Knight, Director: Christopher Nolan, Release Year
Robert Zemeckis, Release Year: 1994<==>Title: Inception, Director: Christopher Nolan, Release Year: 2010<==>Title: The Dark Knight, Director: Christopher Nolan, Release Year: 2008<==>Title: The Godfather: Part II, Director: Francis Ford Coppola, Re

Director: David Fincher, Release Year: 1999<==>Title: Titanic, Director: James Cameron, Release Year: 1997<==>Title: Interstellar, Director: Christopher Nolan, Release Year: 2014<==>Title: The Matrix, Director: The Wachowski Siblings, Release Year
Director: David Fincher, Release Year: 1999<==>Title: Titanic, Director: James Cameron, Release Year: 1997<==>Title: Interstellar, Director: Christopher Nolan, Release Year: 2014<==>Title: The Matrix, Director: The Wachowski Siblings, Release Year
s Year: 2008<==>Title: The Godfather: Part II, Director: Francis Ford Coppola, Release Year: 1974<==>Title: The Godfather, Director: Francis Ford Coppola, Release Year: 1972<==>Title: The Shawshank Redemption, Director: Frank Darabont, Release Year
la, Release Year: 1974<==>Title: The Godfather, Director: Francis Ford Coppola, Release Year: 1972<==>Title: The Shawshank Redemption, Director: Frank Darabont, Release Year: 1994<==>END
```

, Release Year: 1999<==>END  
, Release Year: 1999<==>END  
, Release Year: 1994<==>END