

JOBSHEET 12

Double Linked Lists

Tugas Praktikum

1. Buat program antrian vaksinasi menggunakan queue berbasis double linked list sesuai ilustrasi dan menu di bawah ini! (**counter jumlah antrian tersisa di menu cetak(3)** dan **data orang yang telah divaksinasi di menu Hapus Data(2)** harus ada)

Ilustrasi Program

```
+++++
PENGANTRI VAKSIN EXTRAVAGANZA
+++++

1. Tambah Data Penerima Vaksin
2. Hapus Data Pengantri Vaksin
3. Daftar Penerima Vaksin
4. Keluar
- +++++
```

```
+++++
PENGANTRI VAKSIN EXTRAVAGANZA
+++++

1. Tambah Data Penerima Vaksin
2. Hapus Data Pengantri Vaksin
3. Daftar Penerima Vaksin
4. Keluar
+++++
3
+++++
Daftar Pengantri Vaksin
+++++
|No.   |Nama  |
|123   |Joko  |
|124   |Mely  |
|135   |Johan |
|146   |Rosi  |
Sisa Antrian: 4
```

```
+++++
PENGANTRI VAKSIN EXTRAVAGANZA
+++++

1. Tambah Data Penerima Vaksin
2. Hapus Data Pengantri Vaksin
3. Daftar Penerima Vaksin
4. Keluar
+++++
1
-----
Masukkan Data Penerima Vaksin
-----

Nomor Antrian:
123
-Nama Penerima:
Joko
```

Menu Awal dan
Penambahan Data

Cetak Data (**Komponen di
area merah harus ada**)

Hapus Data (**Komponen di area merah harus ada**)

```

+++++
PENGANTRI VAKSIN EXTRAVAGANZA
+++++

1. Tambah Data Penerima Vaksin
2. Hapus Data Pengantri Vaksin
3. Daftar Penerima Vaksin
4. Keluar

2
Joko telah selesai divaksinasi.
+++++
Daftar Pengantri Vaksin
+++++
|No.    |Nama  |
|124    |Mely  |
|135    |Johan |
|146    |Rosi  |
Sisa Antrian: 3
    
```

➤ **INPUT :**

CLASS NODE :

```

tugas > J Node.java > ...
1  package tugas;
2
3  public class Node {
4      String name;
5      Node prev, next;
6      int queueNumber;
7
8      Node (int queueNumber, String name) {
9          this.prev = null;
10         this.name = name;
11         this.next = null;
12         this.queueNumber = queueNumber;
13     }
14 }
15
    
```

CLASS QUEUE :

```

1  package tugas;
2
3  public class Queue {
4      Node front, rear;
5      int size;
6
7      public Queue() {
8          front = null;
9          rear = null;
10         size = 0;
11     }
12     public boolean isEmpty() {
13         return size == 0;
14     }
15     public void enqueue(int queueNumber, String name) {
16         Node newNode = new Node(queueNumber, name);
17         if (isEmpty()) {
18             front = newNode;
19         } else {
20             rear.next = newNode;
21             newNode.prev = rear;
22         }
23         rear = newNode;
24         size++;
25     }
26 }
    
```

```

27     public String dequeue() {
28         if (isEmpty()) {
29             return "Antrian kosong";
30         }
31         String name = front.name;
32         front = front.next;
33         if (front == null) {
34             rear = null;
35         } else {
36             front.prev = null;
37         }
38         size--;
39         return name + " telah divaksinasi";
40     }
41
42     public int getSize() {
43         return size;
44     }
45 }

```

CLASS MAIN :

```

4     public static void main(String[] args) {
7         while (true) {
8             System.out.println(x:"++++++");
9             System.out.println(x:"  PENGANTRI VAKSIN EXTRAVAGANZA ");
10            System.out.println(x:"++++++");
11            System.out.println(x:"1. Tambah Data Penerima Vaksin  ");
12            System.out.println(x:"2. Hapus Data Pengantri Vaksin");
13            System.out.println(x:"3. Daftar Penerima Vaksin   ");
14            System.out.println(x:"4. Keluar");
15            System.out.println(x:"++++++");
16            System.out.print(s:"Pilih menu: ");
17            int choice = sc.nextInt();
18            switch (choice) {
19                case 1:
20                    System.out.println(x:"=====");
21                    System.out.println(x:"Masukkan Data Penerima Vaksin");
22                    System.out.println(x:"=====");
23                    System.out.println(x:"Nomor Antrian: ");
24                    int queueNumber = sc.nextInt();
25                    System.out.println(x:"Nama Penerima: ");
26                    sc.nextLine();
27                    String name = sc.nextLine();
28                    queue.enqueue(queueNumber, name);
29                    System.out.println(name + " telah ditambahkan ke dalam antrian vaksinasi.");
30                    break;
31
32                case 2:
33                    String removed = queue.dequeue();
34                    System.out.println(removed);
35                    break;
36                case 3:
37                    System.out.println(x:"++++++");
38                    System.out.println(x:"Daftar Pengantri Vaksin ");
39                    System.out.println(x:"++++++");
40                    System.out.println(x:"| No. | Nama |");
41
42                    Node current = queue.front;
43                    while (current != null) {
44                        System.out.printf(format:"| %-4d| %-12s|\n", current.queueNumber, current.name);
45                        current = current.next;
46                    }
47                    System.out.println("Sisa antrian: " + queue.getSize());
48                    break;
49                case 4:
50                    System.out.println(x:"Terima kasih telah menggunakan program antrian vaksinasi.");
51                    System.exit(status:0);
52            default:
53                System.out.println(x:"Pilihan menu tidak valid.");
54            }
55        }
56    }

```

➤ **HASIL OUTPUT :**

//HASIL MENU TAMBAH DATA PENERIMA VAKSIN

```
+++++
PENGANTRI VAKSIN EXTRAVAGANZA
+++++
1. Tambah Data Penerima Vaksin
2. Hapus Data Pengantri Vaksin
3. Daftar Penerima Vaksin
4. Keluar
+++++
Pilih menu: 1
=====
Masukkan Data Penerima Vaksin
=====
Nomor Antrian:
123
Nama Penerima:
Joko
Joko telah ditambahkan ke dalam antrian vaksinasi.
```

//HASIL MENU DAFTAR PENERIMA VAKSIN

```
+++++
PENGANTRI VAKSIN EXTRAVAGANZA
+++++
1. Tambah Data Penerima Vaksin
2. Hapus Data Pengantri Vaksin
3. Daftar Penerima Vaksin
4. Keluar
+++++
Pilih menu: 3
+++++
Daftar Pengantri Vaksin
+++++
| No. | Nama |
| 123 | Joko |
| 124 | Mely |
| 135 | Johan |
| 146 | Rosi |
Sisa antrian: 4
```

// HASIL HAPUS DATA PENGANTRI VAKSIN

```
+++++
PENGANTRI VAKSIN EXTRAVAGANZA
+++++
1. Tambah Data Penerima Vaksin
2. Hapus Data Pengantri Vaksin
3. Daftar Penerima Vaksin
4. Keluar
+++++
Pilih menu: 2
Joko telah divaksinasi
```

MAKA JUMLAH ANTRIAN VAKSIN BERKURANG



```

+++++
PENGANTRI VAKSIN EXTRAVAGANZA
+++++
1. Tambah Data Penerima Vaksin
2. Hapus Data Pengantri Vaksin
3. Daftar Penerima Vaksin
4. Keluar
+++++
Pilih menu: 3
+++++
Daftar Pengantri Vaksin
+++++
| No. | Nama |
| 124 | Mely |
| 135 | Johan |
| 146 | Rosi |
Sisa antrian: 3
    
```



2. Buatlah program daftar film yang terdiri dari id, judul dan rating menggunakan double linked lists, bentuk program memiliki fitur pencarian melalui ID Film dan pengurutan Rating secara descending. Class Film wajib diimplementasikan dalam soal ini.

Contoh Ilustrasi Program

Menu Awal dan Penambahan Data

```
=====
DATA FILM LAYAR LEBAR
=====
1. Tambah Data Awal
2. Tambah Data Akhir
3. Tambah Data Index Tertentu
4. Hapus Data Pertama
5. Hapus Data Terakhir
6. Hapus Data Tertentu
7. Cetak
8. Cari ID Film
9. Urut Data Rating Film-DESC
10. Keluar
=====
```

```
=====
DATA FILM LAYAR LEBAR
=====
1. Tambah Data Awal
2. Tambah Data Akhir
3. Tambah Data Index Tertentu
4. Hapus Data Pertama
5. Hapus Data Terakhir
6. Hapus Data Tertentu
7. Cetak
8. Cari ID Film
9. Urut Data Rating Film-DESC
10. Keluar
=====
1
Masukkan Data Film Posisi Awal
ID Film:
1222
Judul Film:
Spider-Man: No Way Home
Rating Film:
8.7
```

```
=====
DATA FILM LAYAR LEBAR
=====
1. Tambah Data Awal
2. Tambah Data Akhir
3. Tambah Data Index Tertentu
4. Hapus Data Pertama
5. Hapus Data Terakhir
6. Hapus Data Tertentu
7. Cetak
8. Cari ID Film
9. Urut Data Rating Film-DESC
10. Keluar
=====
2
Masukkan Data Posisi Akhir
ID Film:
1346
Judul Film:
Uncharted
Rating Film:
6.7
```

```
=====
DATA FILM LAYAR LEBAR
=====
1. Tambah Data Awal
2. Tambah Data Akhir
3. Tambah Data Index Tertentu
4. Hapus Data Pertama
5. Hapus Data Terakhir
6. Hapus Data Tertentu
7. Cetak
8. Cari ID Film
9. Urut Data Rating Film-DESC
10. Keluar
=====
3
Masukkan Data Film
Urutan ke-
ID Film:
1234
Judul Film:
Death on the Nile
Rating Film:
6.6
Data Film ini akan masuk di urutan ke-
3
```



Cetak Data

```
=====
DATA FILM LAYAR LEBAR
=====
1. Tambah Data Awal
2. Tambah Data Akhir
3. Tambah Data Index Tertentu
4. Hapus Data Pertama
5. Hapus Data Terakhir
6. Hapus Data Tertentu
7. Cetak
8. Cari ID Film
9. Urut Data Rating Film-DESC
10. Keluar
=====
7
Cetak Data
ID: 1222
Judul Film: Spider-Man: No Way Home
ipk: 8.7
ID: 1765
Judul Film: Skyfall
ipk: 7.8
ID: 1567
Judul Film: The Dark Knight Rises
ipk: 8.4
ID: 1234
Judul Film: Death on The Nile
ipk: 6.6
ID: 1346
Judul Film: Uncharted
ipk: 6.7
```

Pencarian Data

```
=====
DATA FILM LAYAR LEBAR
=====
1. Tambah Data Awal
2. Tambah Data Akhir
3. Tambah Data Index Tertentu
4. Hapus Data Pertama
5. Hapus Data Terakhir
6. Hapus Data Tertentu
7. Cetak
8. Cari ID Film
9. Urut Data Rating Film-DESC
10. Keluar
=====
8
Cari Data
Masukkan ID Film yang dicari
1567
Data Id Film: 1567 berada di node ke- 3
IDENTITAS:
ID Film: 1567
Judul Film: The Dark Knight Rises
IMDB Rating: 8.4
```

➤ INPUT

CLASS FILM

```
tugas2 > J Film.java > Film
1  package tugas2;
2
3  public class Film {
4      int id;
5      String title;
6      double rating;
7      Film prev, next;
8
9      public Film(int id, String title, double rating) {
10         this.id = id;
11         this.title = title;
12         this.rating = rating;
13         this.prev = null;
14         this.next = null;
15     }
16 }
17
```

CLASS DOUBLE LINKED LIST

```
1  package tugas2;
2
3  public class FilmDoubleLinkedList {
4      Film head, tail;
5      int size;
6      public FilmDoubleLinkedList() {
7          head = null;
8          tail = null;
9          size = 0;
10     }
11     public boolean isEmpty() {
12         return head == null;
13     }
14     public void addFirst(int id, String title, double rating) {
15         Film newFilm = new Film(id, title, rating);
16         if (isEmpty()) {
17             tail = newFilm;
18         } else {
19             head.prev = newFilm;
20             newFilm.next = head;
21         }
22         head = newFilm;
23         size++;
24     }
25
26     public void addLast(int id, String title, double rating) {
27         if (isEmpty()) {
28             addFirst(id, title, rating);
29         } else {
30             Film newFilm = new Film(id, title, rating);
31             tail.next = newFilm;
32             newFilm.prev = tail;
33             tail = newFilm;
34             size++;
35         }
36     }
37 }
```



```

37 public void add(int id, String title, double rating, int index) {
38     if (index < 0 || index > size) {
39         System.out.println(x:"Indeks diluar batas.");
40         return;
41     }
42     if (index == 0) {
43         addFirst(id, title, rating);
44     } else if (index == size) {
45         addLast(id, title, rating);
46     } else {
47         Film current = head;
48         for (int i = 0; i < index - 1; i++) {
49             current = current.next;
50         }
51         Film newFilm = new Film(id, title, rating);
52         newFilm.next = current.next;
53         current.next.prev = newFilm;
54         current.next = newFilm;
55         newFilm.prev = current;
56         size++;
57     }
58 }

60 public void removeFirst() {
62     System.out.println(x:"Daftar film kosong.");
63     return;
64 }
65 head = head.next;
66 if (head == null) {
67     tail = null;
68 } else {
69     head.prev = null;
70 }
71 size--;
72 }

73 public void removeLast() {
74     if (isEmpty()) {
75         System.out.println(x:"Daftar film kosong.");
76         return;
77     }
78     if (head == tail) {
79         head = tail = null;
80     } else {
81         tail = tail.prev;
82         tail.next = null;
83     }
84     size--;
85 }

87 public void remove(int index) {
88     if (index < 0 || index >= size) {
89         System.out.println(x:"Indeks diluar batas.");
90         return;
91     }
92     if (index == 0) {
93         removeFirst();
94     } else if (index == size - 1) {
95         removeLast();
96     } else {
97         Film current = head;
98         for (int i = 0; i < index; i++) {
99             current = current.next;
100         }
101         current.prev.next = current.next;
102         current.next.prev = current.prev;
103         size--;
104     }
105 }

107 public void sortDescending() {
108     for (Film i = head; i != null; i = i.next) {
109         for (Film j = head; j != null; j = j.next) {
110             if (j.rating < i.rating) {
111                 int tempId = j.id;
112                 String tempTitle = j.title;
113                 double tempRating = j.rating;
114                 j.id = i.id;
115                 j.title = i.title;
116                 j.rating = i.rating;
117                 i.id = tempId;
118                 i.title = tempTitle;
119                 i.rating = tempRating;
120             }
121         }
122     }
123 }

```

```

125     public void displayFilms() {
126         if (isEmpty()) {
127             System.out.println(x:"Cetak Data");
128             return;
129         }
130         System.out.println(x:"Daftar Film:");
131         System.out.println(x:"| ID |          Judul          | Rating |");
132         System.out.println(x:"|----|-----|-----|");
133         Film current = head;
134         while (current != null) {
135             System.out.printf(format:"| %-4d| %-23s| %.1f   |\n", current.id, current.title, current.rating);
136             current = current.next;
137         }
138     }
139     public Film searchFilm(int id) {
140         Film current = head;
141         while (current != null) {
142             if (current.id == id) {
143                 return current;
144             }
145             current = current.next;
146         }
147         return null;
148     }
149 }

```

CLASS MAIN

```

3     import java.util.Scanner;
4
5     public class FilmMain {
6         Run | Debug
7         public static void main(String[] args) {
8             Scanner sc = new Scanner(System.in);
9             FilmDoubleLinkedList filmList = new FilmDoubleLinkedList();
10            while (true) {
11                System.out.println(x:"=====");
12                System.out.println(x:"DATA FILM LAYAR LEBAR ");
13                System.out.println(x:"=====");
14                System.out.println(x:"1. Tambah Data Awal");
15                System.out.println(x:"2. Tambah Data Akhir");
16                System.out.println(x:"3. Tambah Data di Index Tertentu");
17                System.out.println(x:"4. Hapus Data Pertama");
18                System.out.println(x:"5. Hapus Data Terakhir");
19                System.out.println(x:"6. Hapus Data di Index Tertentu");
20                System.out.println(x:"7. Cetak");
21                System.out.println(x:"8. Cari Film berdasarkan ID");
22                System.out.println(x:"9. Urut Data Rating FILM-DESC");
23                System.out.println(x:"10. Keluar");
24                System.out.println(x:"=====");
25                System.out.print(s:"Pilih menu: ");
26                int choice = sc.nextInt();
27
28                switch (choice) {
29                    case 1:
30                        System.out.println(x:"Masukkan Data Film Posisi Awal");
31                        System.out.println(x:"ID Film: ");
32                        int id1 = sc.nextInt();
33                        System.out.println(x:"Judul Film: ");
34                        sc.nextLine();
35                        String title1 = sc.nextLine();
36                        System.out.println(x:"Rating Film: ");
37                        double rating1 = sc.nextDouble();
38                        filmList.addFirst(id1, title1, rating1);
39                        System.out.println(x:"Film berhasil ditambahkan di awal.");
40                        break;
41                    case 2:
42                        System.out.println(x:"Masukkan Data Film Posisi Akhir");
43                        System.out.println(x:"ID Film: ");
44                        int id2 = sc.nextInt();
45                        System.out.println(x:"Judul Film: ");
46                        sc.nextLine();
47                        String title2 = sc.nextLine();
48                        System.out.println(x:"Rating Film: ");
49                        double rating2 = sc.nextDouble();
50                        filmList.addLast(id2, title2, rating2);
51                        System.out.println(x:"Film berhasil ditambahkan di akhir.");

```



```

51         break;
52     case 3:
53         System.out.println(x:"Masukkan Data Film");
54         System.out.print(s:"ID Film: ");
55         int id3 = sc.nextInt();
56         System.out.println(x:"Judul Film: ");
57         sc.nextLine();
58         String title3 = sc.nextLine();
59         System.out.println(x:"Rating Film: ");
60         double rating3 = sc.nextDouble();
61         System.out.println(x:"Data Film ini akan masuk di urutan ke-");
62         int index3 = sc.nextInt();
63         filmList.add(id3, title3, rating3, index3-1);
64         System.out.println("Film berhasil ditambahkan di indeks " + index3 + ".");
65         break;
66     case 4:
67         filmList.removeFirst();
68         System.out.println(x:"Film pertama berhasil dihapus.");
69         break;
70     case 5:
71         filmList.removeLast();
72         System.out.println(x:"Film terakhir berhasil dihapus.");
73         break;
74
75     case 6:
76         System.out.print(s:"Masukkan indeks film yang ingin dihapus: ");
77         int index6 = sc.nextInt();
78         filmList.remove(index6);
79         System.out.println("Film di indeks " + index6 + " berhasil dihapus.");
80         break;
81     case 7:
82         filmList.displayFilms();
83         break;
84     case 8:
85         System.out.println(x:"Cari Data");
86         System.out.print(s:"Masukkan ID Film yang dicari: ");
87         int searchId = sc.nextInt();
88         Film searchedFilm = filmList.searchFilm(searchId);
89         if (searchedFilm != null) {
90             System.out.println(x:"IDENTITAS: ");
91             System.out.println("ID: " + searchedFilm.id);
92             System.out.println("Judul: " + searchedFilm.title);
93             System.out.println("Rating: " + searchedFilm.rating);
94         } else {
95             System.out.println("Film dengan ID " + searchId + " tidak ditemukan.");
96         }
97         break;
98     case 9 :
99         filmList.sortDescending();
100        System.out.println(x:"Film berhasil diurutkan secara descending berdasarkan rating.");
101        break;
102    case 10:
103        System.out.println(x:"Terima kasih telah menggunakan program.");
104        System.exit(status:0);
105    default:
106        System.out.println(x:"Pilihan menu tidak valid.");
107    }
108 }
109 }

```

➤ **OUTPUT**

//HASIL TAMBAH DATA AWAL

```
=====
DATA FILM LAYAR LEBAR
=====
1. Tambah Data Awal
2. Tambah Data Akhir
3. Tambah Data di Index Tertentu
4. Hapus Data Pertama
5. Hapus Data Terakhir
6. Hapus Data di Index Tertentu
7. Cetak
8. Cari Film berdasarkan ID
9. Urut Data Rating FILM-DESC
10. Keluar
=====
Pilih menu: 1
Masukkan Data Film Posisi Awal
ID Film:
1222
Judul Film:
Spider Man
Rating Film:
8.7
Film berhasil ditambahkan di awal.
```

//HASIL TAMBAH DATA AKHIR

```
=====
DATA FILM LAYAR LEBAR
=====
1. Tambah Data Awal
2. Tambah Data Akhir
3. Tambah Data di Index Tertentu
4. Hapus Data Pertama
5. Hapus Data Terakhir
6. Hapus Data di Index Tertentu
7. Cetak
8. Cari Film berdasarkan ID
9. Urut Data Rating FILM-DESC
10. Keluar
=====
Pilih menu: 2
Masukkan Data Film Posisi Akhir
ID Film:
1346
Judul Film:
Uncharted
Rating Film:
6.7
Film berhasil ditambahkan di akhir.
```

//HASIL TAMBAH DATA INDEX TERTENTU

```
=====
DATA FILM LAYAR LEBAR
=====
1. Tambah Data Awal
2. Tambah Data Akhir
3. Tambah Data di Index Tertentu
4. Hapus Data Pertama
5. Hapus Data Terakhir
6. Hapus Data di Index Tertentu
7. Cetak
8. Cari Film berdasarkan ID
9. Urut Data Rating FILM-DESC
10. Keluar
=====
Pilih menu: 3
Masukkan Data Film
ID Film: 1234
Judul Film:
Death on the Nile
Rating Film:
6.6
Data Film ini akan masuk di urutan ke-
3
Film berhasil ditambahkan di indeks 3.
```

// HASIL TAMPILAN CETAK

```
=====
DATA FILM LAYAR LEBAR
=====
1. Tambah Data Awal
2. Tambah Data Akhir
3. Tambah Data di Index Tertentu
4. Hapus Data Pertama
5. Hapus Data Terakhir
6. Hapus Data di Index Tertentu
7. Cetak
8. Cari Film berdasarkan ID
9. Urut Data Rating FILM-DESC
10. Keluar
=====
Pilih menu: 7
Daftar Film:
| ID | Judul | Rating |
|----|-----|-----|
| 1222| Spider Man | 8.7 |
| 1346| Uncharted | 6.7 |
| 1234| Death on the Nile | 6.6 |
```



// HASIL CARİ FILM BERDASARKAN ID

```
=====
DATA FILM LAYAR LEBAR
=====
1. Tambah Data Awal
2. Tambah Data Akhir
3. Tambah Data di Index Tertentu
4. Hapus Data Pertama
5. Hapus Data Terakhir
6. Hapus Data di Index Tertentu
7. Cetak
8. Cari Film berdasarkan ID
9. Urut Data Rating FILM-DESC
10. Keluar
=====
Pilih menu: 8
Cari Data
Masukkan ID Film yang dicari: 1234
IDENTITAS:
ID: 1234
Judul: Death on the Nile
Rating: 6.6
```

//HASIL DATA RATING URUT BERDASARKAN FILM DESCENDING

```
=====
DATA FILM LAYAR LEBAR
=====
1. Tambah Data Awal
2. Tambah Data Akhir
3. Tambah Data di Index Tertentu
4. Hapus Data Pertama
5. Hapus Data Terakhir
6. Hapus Data di Index Tertentu
7. Cetak
8. Cari Film berdasarkan ID
9. Urut Data Rating FILM-DESC
10. Keluar
=====
Pilih menu: 9
Film berhasil diurutkan secara descending berdasarkan rating.
```

ID	Judul	Rating
1222	Spider Man	8.7
1346	Uncharted	6.7
1234	Death on the Nile	6.6

//HASIL HAPUS DATA PERTAMA

```
=====
DATA FILM LAYAR LEBAR
=====
1. Tambah Data Awal
2. Tambah Data Akhir
3. Tambah Data di Index Tertentu
4. Hapus Data Pertama
5. Hapus Data Terakhir
6. Hapus Data di Index Tertentu
7. Cetak
8. Cari Film berdasarkan ID
9. Urut Data Rating FILM-DESC
10. Keluar
=====
Pilih menu: 4
Film pertama berhasil dihapus.
```

ID	Judul	Rating
1346	Uncharted	6.7
1234	Death on the Nile	6.6

//HASIL HAPUS DATA TERAKHIR

```
=====
DATA FILM LAYAR LEBAR
=====
```

1. Tambah Data Awal
2. Tambah Data Akhir
3. Tambah Data di Index Tertentu
4. Hapus Data Pertama
5. Hapus Data Terakhir
6. Hapus Data di Index Tertentu
7. Cetak
8. Cari Film berdasarkan ID
9. Urut Data Rating FILM-DESC
10. Keluar

```
=====
Pilih menu: 5
```

```
Film terakhir berhasil dihapus.
```

ID	Judul	Rating
-----	-----	-----
1346	Uncharted	6.7