

Big Screen Graph – Output

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Big Screen Graph – Output

```
Run:1: Normal flow
input file content:

Dangal / Aamir Khan / Fatima Sana
Sanju / Ranbir Kapoor / Dia Mirza
PK / Aamir Khan / Anushka Sharma
Munna Bhai MBBS / Sanjay Dutt / Arshad Warsi
Zindagi Na Milegi Dobara / Farhan Akhtar / Katrina Kaif
Sultan / Anushka Sharma / Salman Khan


---


Enter file name to process :
input/test2.txt
Graph formed.
--- MENU ---
  1. LoadAnotherFile
  2. DisplayActorsAndMovies
  3. DisplayMovies
  4. DisplayActors
  5. DisplayMoviesOfActor
  6. DisplayActorsOfMovie
  7. FindMovieRelation
  8. FindMovieTransitiveRelation
  9. Exit
Enter choice :
2
--GRAPH--
Vertex :Dangal (MOVIE)
  --- Having edges to : [Aamir Khan (ACTOR), Fatima Sana (ACTOR)]
Vertex :Aamir Khan (ACTOR)
  --- Having edges to : [Dangal (MOVIE), PK (MOVIE)]
Vertex :Fatima Sana (ACTOR)
  --- Having edges to : [Dangal (MOVIE)]
Vertex :Sanju (MOVIE)
  --- Having edges to : [Ranbir Kapoor (ACTOR), Dia Mirza (ACTOR)]
```

```
Vertex :Ranbir Kapoor (ACTOR)
    --- Having edges to : [Sanju (MOVIE)]
Vertex :Dia Mirza (ACTOR)
    --- Having edges to : [Sanju (MOVIE)]
Vertex :PK (MOVIE)
    --- Having edges to : [Aamir Khan (ACTOR), Anushka Sharma (ACTOR)]
Vertex :Anushka Sharma (ACTOR)
    --- Having edges to : [PK (MOVIE), Sultan (MOVIE)]
Vertex :Munna Bhai MBBS (MOVIE)
    --- Having edges to : [Sanjay Dutt (ACTOR), Arshad Warsi (ACTOR)]
Vertex :Sanjay Dutt (ACTOR)
    --- Having edges to : [Munna Bhai MBBS (MOVIE)]
Vertex :Arshad Warsi (ACTOR)
    --- Having edges to : [Munna Bhai MBBS (MOVIE)]
Vertex :Zindagi Na Milegi Dobara (MOVIE)
    --- Having edges to : [Farhan Akhtar (ACTOR), Katrina Kaif (ACTOR)]
Vertex :Farhan Akhtar (ACTOR)
    --- Having edges to : [Zindagi Na Milegi Dobara (MOVIE)]
Vertex :Katrina Kaif (ACTOR)
    --- Having edges to : [Zindagi Na Milegi Dobara (MOVIE)]
Vertex :Sultan (MOVIE)
    --- Having edges to : [Anushka Sharma (ACTOR), Salman Khan (ACTOR)]
Vertex :Salman Khan (ACTOR)
    --- Having edges to : [Sultan (MOVIE)]
--- MENU ---
1. LoadAnotherFile
2. DisplayActorsAndMovies
3. DisplayMovies
4. DisplayActors
5. DisplayMoviesOfActor
6. DisplayActorsOfMovie
7. FindMovieRelation
8. FindMovieTransitiveRelation
```

9. Exit

Enter choice :

3

--GRAPH-- (Only MOVIE) vertices

Vertex :Dangal (MOVIE)

--- Having edges to : [Aamir Khan (ACTOR), Fatima Sana (ACTOR)]

Vertex :Sanju (MOVIE)

--- Having edges to : [Ranbir Kapoor (ACTOR), Dia Mirza (ACTOR)]

Vertex :PK (MOVIE)

--- Having edges to : [Aamir Khan (ACTOR), Anushka Sharma (ACTOR)]

Vertex :Munna Bhai MBBS (MOVIE)

--- Having edges to : [Sanjay Dutt (ACTOR), Arshad Warsi (ACTOR)]

Vertex :Zindagi Na Milegi Dobara (MOVIE)

--- Having edges to : [Farhan Akhtar (ACTOR), Katrina Kaif (ACTOR)]

Vertex :Sultan (MOVIE)

--- Having edges to : [Anushka Sharma (ACTOR), Salman Khan (ACTOR)]

--- MENU ---

1. LoadAnotherFile
2. DisplayActorsAndMovies
3. DisplayMovies
4. DisplayActors
5. DisplayMoviesOfActor
6. DisplayActorsOfMovie
7. FindMovieRelation
8. FindMovieTransitiveRelation
9. Exit

Enter choice :

4

--GRAPH-- (Only ACTOR) vertices

Vertex :Aamir Khan (ACTOR)

--- Having edges to : [Dangal (MOVIE), PK (MOVIE)]

Vertex :Fatima Sana (ACTOR)

--- Having edges to : [Dangal (MOVIE)]

```
Vertex :Ranbir Kapoor (ACTOR)
    --- Having edges to : [Sanju (MOVIE)]
Vertex :Dia Mirza (ACTOR)
    --- Having edges to : [Sanju (MOVIE)]
Vertex :Anushka Sharma (ACTOR)
    --- Having edges to : [PK (MOVIE), Sultan (MOVIE)]
Vertex :Sanjay Dutt (ACTOR)
    --- Having edges to : [Munna Bhai MBBS (MOVIE)]
Vertex :Arshad Warsi (ACTOR)
    --- Having edges to : [Munna Bhai MBBS (MOVIE)]
Vertex :Farhan Akhtar (ACTOR)
    --- Having edges to : [Zindagi Na Milegi Dobara (MOVIE)]
Vertex :Katrina Kaif (ACTOR)
    --- Having edges to : [Zindagi Na Milegi Dobara (MOVIE)]
Vertex :Salman Khan (ACTOR)
    --- Having edges to : [Sultan (MOVIE)]
--- MENU ---
1. LoadAnotherFile
2. DisplayActorsAndMovies
3. DisplayMovies
4. DisplayActors
5. DisplayMoviesOfActor
6. DisplayActorsOfMovie
7. FindMovieRelation
8. FindMovieTransitiveRelation
9. Exit
Enter choice :
5
Enter Actor Name :
Salman Khan
Movies of : Salman Khan
Vertex :Salman Khan (ACTOR)
    --- Having edges to : [Sultan (MOVIE)]
```

--- MENU ---

1. LoadAnotherFile
2. DisplayActorsAndMovies
3. DisplayMovies
4. DisplayActors
5. DisplayMoviesOfActor
6. DisplayActorsOfMovie
7. FindMovieRelation
8. FindMovieTransitiveRelation
9. Exit

Enter choice :

5

Enter Actor Name :

Aamir Khan

Movies of : Aamir Khan

Vertex :Aamir Khan (ACTOR)

--- Having edges to : [Dangal (MOVIE), PK (MOVIE)]

--- MENU ---

1. LoadAnotherFile
2. DisplayActorsAndMovies
3. DisplayMovies
4. DisplayActors
5. DisplayMoviesOfActor
6. DisplayActorsOfMovie
7. FindMovieRelation
8. FindMovieTransitiveRelation
9. Exit

Enter choice :

6

Enter Movie Name :

PK

Actors in : PK

Vertex :PK (MOVIE)

```
    --- Having edges to : [Aamir Khan (ACTOR), Anushka Sharma (ACTOR)]
--- MENU ---
1. LoadAnotherFile
2. DisplayActorsAndMovies
3. DisplayMovies
4. DisplayActors
5. DisplayMoviesOfActor
6. DisplayActorsOfMovie
7. FindMovieRelation
8. FindMovieTransitiveRelation
9. Exit
Enter choice :
6
Enter Movie Name :
Dangal
Actors in : Dangal
Vertex :Dangal (MOVIE)
    --- Having edges to : [Aamir Khan (ACTOR), Fatima Sana (ACTOR)]
--- MENU ---
1. LoadAnotherFile
2. DisplayActorsAndMovies
3. DisplayMovies
4. DisplayActors
5. DisplayMoviesOfActor
6. DisplayActorsOfMovie
7. FindMovieRelation
8. FindMovieTransitiveRelation
9. Exit
Enter choice :
7
Enter Movie 1 :
PK
Enter Movie 2 :
```

Dangal

PK (MOVIE) Related to Dangal (MOVIE) through :Aamir Khan (ACTOR)

--- MENU ---

1. LoadAnotherFile
2. DisplayActorsAndMovies
3. DisplayMovies
4. DisplayActors
5. DisplayMoviesOfActor
6. DisplayActorsOfMovie
7. FindMovieRelation
8. FindMovieTransitiveRelation
9. Exit

Enter choice :

8

Enter Movie 1 :

PK

Enter Movie 2 :

Sultan

BFS Path : -- Path :[PK (MOVIE), Aamir Khan (ACTOR), Anushka Sharma (ACTOR), Sultan (MOVIE)]

DFS Path : -- Path :[PK (MOVIE), Anushka Sharma (ACTOR), Sultan (MOVIE)]

PK (MOVIE) Related to Sultan (MOVIE) through :

-- Path :[Anushka Sharma (ACTOR)]

--- MENU ---

1. LoadAnotherFile
2. DisplayActorsAndMovies
3. DisplayMovies
4. DisplayActors
5. DisplayMoviesOfActor
6. DisplayActorsOfMovie
7. FindMovieRelation
8. FindMovieTransitiveRelation
9. Exit

Enter choice :

7

Enter Movie 1 :

Dangal

Enter Movie 2 :

Sultan

Dangal (MOVIE) Related to Sultan (MOVIE) through :

-- Path :[Aamir Khan (ACTOR), PK (MOVIE), Anushka Sharma (ACTOR)]

--- MENU ---

1. LoadAnotherFile
2. DisplayActorsAndMovies
3. DisplayMovies
4. DisplayActors
5. DisplayMoviesOfActor
6. DisplayActorsOfMovie
7. FindMovieRelation
8. FindMovieTransitiveRelation
9. Exit

Enter choice :

8

Enter Movie 1 :

Dangal

Enter Movie 2 :

Sultan

BFS Path : -- Path :[Dangal (MOVIE), Aamir Khan (ACTOR), Fatima Sana (ACTOR), PK (MOVIE), Anushka Sharma (ACTOR), Sultan (MOVIE)]

DFS Path : -- Path :[Dangal (MOVIE), Fatima Sana (ACTOR), Aamir Khan (ACTOR), PK (MOVIE), Anushka Sharma (ACTOR), Sultan (MOVIE)]

Dangal (MOVIE) Related to Sultan (MOVIE) through :

-- Path :[Aamir Khan (ACTOR), PK (MOVIE), Anushka Sharma (ACTOR)]

--- MENU ---

1. LoadAnotherFile
2. DisplayActorsAndMovies
3. DisplayMovies
4. DisplayActors

5. DisplayMoviesOfActor
6. DisplayActorsOfMovie
7. FindMovieRelation
8. FindMovieTransitiveRelation
9. Exit

Enter choice :

9

BUILD SUCCESSFUL (total time: 16 minutes 12 seconds)

Run: 2: More than 2 movies for an actor

Input

Dangal / Aamir Khan / Fatima Sana

Sanju / Ranbir Kapoor / Dia Mirza

PK / Aamir Khan / Anushka Sharma

Munna Bhai MBBS / Sanjay Dutt / Arshad Warsi

Zindagi Na Milegi Dobara / Farhan Akhtar / Katrina Kaif

Fanna / Kajol / Aamir Khan

run:

Enter file name to process :

input/error1.txt

Vertex : Aamir Khan (ACTOR) reached edge limit of 2.

Can't add edges for line : Fanna / Kajol / Aamir Khan

--- MENU ---

1. LoadAnotherFile
2. DisplayActorsAndMovies
3. DisplayMovies
4. DisplayActors
5. DisplayMoviesOfActor
6. DisplayActorsOfMovie
7. FindMovieRelation
8. FindMovieTransitiveRelation

9. Exit

Enter choice :

10

Invalid option

No valid graph loaded. Please select LoadAnotherFile or Exit

--- MENU ---

1. LoadAnotherFile
2. DisplayActorsAndMovies
3. DisplayMovies
4. DisplayActors
5. DisplayMoviesOfActor
6. DisplayActorsOfMovie
7. FindMovieRelation
8. FindMovieTransitiveRelation
9. Exit

Enter choice :

9

BUILD SUCCESSFUL (total time: 29 seconds)

Run 3: Empty file

Input: empty file

run:

Enter file name to process :

input/empty.txt

Invalid format in the file at line number 1

--- MENU ---

1. LoadAnotherFile
2. DisplayActorsAndMovies
3. DisplayMovies
4. DisplayActors
5. DisplayMoviesOfActor
6. DisplayActorsOfMovie
7. FindMovieRelation

8. FindMovieTransitiveRelation

9. Exit

Enter choice :

9

BUILD SUCCESSFUL (total time: 21 seconds)

Big Screen Graph – Function Vice Output

Input File Content

Dangal / Aamir Khan / Fatima Sana

Sanju / Ranbir Kapoor / Dia Mirza

PK / Aamir Khan / Anushka Sharma

Munna Bhai MBBS / Sanjay Dutt / Arshad Warsi

Zindagi Na Milegi Dobara / Farhan Akhtar / Katrina Kaif

Sultan / Anushka Sharma / Salman Khan

From Assignment:

Qn 1: void readActMovfile(String inputfile)

Output: menu Option 1

Enter file name to process :

input/test2.txt

Graph formed.

Qn 2: void displayActMov():

Output: Menu Option 2 – Displays both actors and movies

Enter choice :

2

--GRAPH--

Vertex :Dangal (MOVIE)

--- Having edges to : [Aamir Khan (ACTOR), Fatima Sana (ACTOR)]

Vertex :Aamir Khan (ACTOR)

--- Having edges to : [Dangal (MOVIE), PK (MOVIE)]

Vertex :Fatima Sana (ACTOR)

--- Having edges to : [Dangal (MOVIE)]

Vertex :Sanju (MOVIE)

--- Having edges to : [Ranbir Kapoor (ACTOR), Dia Mirza (ACTOR)]

Vertex :Ranbir Kapoor (ACTOR)

```

    --- Having edges to : [Sanju (MOVIE)]
Vertex :Dia Mirza (ACTOR)
    --- Having edges to : [Sanju (MOVIE)]
Vertex :PK (MOVIE)
    --- Having edges to : [Aamir Khan (ACTOR), Anushka Sharma (ACTOR)]
Vertex :Anushka Sharma (ACTOR)
    --- Having edges to : [PK (MOVIE), Sultan (MOVIE)]
Vertex :Munna Bhai MBBS (MOVIE)
    --- Having edges to : [Sanjay Dutt (ACTOR), Arshad Warsi (ACTOR)]
Vertex :Sanjay Dutt (ACTOR)
    --- Having edges to : [Munna Bhai MBBS (MOVIE)]
Vertex :Arshad Warsi (ACTOR)
    --- Having edges to : [Munna Bhai MBBS (MOVIE)]
Vertex :Zindagi Na Milegi Dobara (MOVIE)
    --- Having edges to : [Farhan Akhtar (ACTOR), Katrina Kaif (ACTOR)]
Vertex :Farhan Akhtar (ACTOR)
    --- Having edges to : [Zindagi Na Milegi Dobara (MOVIE)]
Vertex :Katrina Kaif (ACTOR)
    --- Having edges to : [Zindagi Na Milegi Dobara (MOVIE)]
Vertex :Sultan (MOVIE)
    --- Having edges to : [Anushka Sharma (ACTOR), Salman Khan (ACTOR)]
Vertex :Salman Khan (ACTOR)
    --- Having edges to : [Sultan (MOVIE)]

```

Output 2: Display only movies:

Enter choice :

3

--GRAPH-- (Only MOVIE) vertices

```

Vertex :Dangal (MOVIE)
    --- Having edges to : [Aamir Khan (ACTOR), Fatima Sana (ACTOR)]
Vertex :Sanju (MOVIE)
    --- Having edges to : [Ranbir Kapoor (ACTOR), Dia Mirza (ACTOR)]
Vertex :PK (MOVIE)
    --- Having edges to : [Aamir Khan (ACTOR), Anushka Sharma (ACTOR)]

```

```
Vertex :Munna Bhai MBBS (MOVIE)
    --- Having edges to : [Sanjay Dutt (ACTOR), Arshad Warsi (ACTOR)]
Vertex :Zindagi Na Milegi Dobara (MOVIE)
    --- Having edges to : [Farhan Akhtar (ACTOR), Katrina Kaif (ACTOR)]
Vertex :Sultan (MOVIE)
    --- Having edges to : [Anushka Sharma (ACTOR), Salman Khan (ACTOR)]
--- MENU ---
1. LoadAnotherFile
2. DisplayActorsAndMovies
3. DisplayMovies
4. DisplayActors
5. DisplayMoviesOfActor
6. DisplayActorsOfMovie
7. FindMovieRelation
8. FindMovieTransitiveRelation
9. Exit
```

Output 3: Display only actors

Enter choice :

4

--GRAPH-- (Only ACTOR) vertices

```
Vertex :Aamir Khan (ACTOR)
    --- Having edges to : [Dangal (MOVIE), PK (MOVIE)]
Vertex :Fatima Sana (ACTOR)
    --- Having edges to : [Dangal (MOVIE)]
Vertex :Ranbir Kapoor (ACTOR)
    --- Having edges to : [Sanju (MOVIE)]
Vertex :Dia Mirza (ACTOR)
    --- Having edges to : [Sanju (MOVIE)]
Vertex :Anushka Sharma (ACTOR)
    --- Having edges to : [PK (MOVIE), Sultan (MOVIE)]
Vertex :Sanjay Dutt (ACTOR)
    --- Having edges to : [Munna Bhai MBBS (MOVIE)]
Vertex :Arshad Warsi (ACTOR)
    --- Having edges to : [Munna Bhai MBBS (MOVIE)]
```

Vertex :Farhan Akhtar (ACTOR)

--- Having edges to : [Zindagi Na Milegi Dobara (MOVIE)]

Vertex :Katrina Kaif (ACTOR)

--- Having edges to : [Zindagi Na Milegi Dobara (MOVIE)]

Vertex :Salman Khan (ACTOR)

--- Having edges to : [Sultan (MOVIE)]

Qn 3: void displayMoviesOfActor(String actor):

Menu Option: 5

Output 1: One movie

Enter choice :

5

Enter Actor Name :

Salman Khan

Movies of : Salman Khan

Vertex :Salman Khan (ACTOR)

--- Having edges to : [Sultan (MOVIE)]

Output 2: 2 movies

Enter choice :

5

Enter Actor Name :

Aamir Khan

Movies of : Aamir Khan

Vertex :Aamir Khan (ACTOR)

--- Having edges to : [Dangal (MOVIE), PK (MOVIE)]

Output 3: No Movies

Enter choice :

5

Enter Actor Name :

John Abraham

Movies of : John Abraham

John Abraham(ACTOR) not found in the graph

Qn 4: void displayActorsOfMovie(String movie):

Enter choice :

6

Enter Movie Name :

Dangal

Actors in : Dangal

Vertex :Dangal (MOVIE)

--- Having edges to : [Aamir Khan (ACTOR), Fatima Sana (ACTOR)]

Qn 5: void findMovieRelation(String movA,String movB):

Output 1: One Actor common between movie

Enter choice :

7

Enter Movie 1 :

PK

Enter Movie 2 :

Dangal

PK (MOVIE) Related to Dangal (MOVIE) through :Aamir Khan (ACTOR)

Output2: No actor common between movies

Enter choice :

7

Enter Movie 1 :

Munna Bhai MBBS

Enter Movie 2 :

Zindagi Na Milegi Dobara

Movies Munna Bhai MBBS (MOVIE), Zindagi Na Milegi Dobara (MOVIE) don't have a common actor.

--- MENU ---

1. LoadAnotherFile
2. DisplayActorsAndMovies
3. DisplayMovies
4. DisplayActors
5. DisplayMoviesOfActor
6. DisplayActorsOfMovie
7. FindMovieRelation
8. FindMovieTransitiveRelation
9. Exit

Qn 6: void findMovieTransRelation(String movA,String movB):

Output 1: One node between movies

Enter choice :

8

Output: BSF Path, DSF Path and Common Vertices between Movies

Enter Movie 1 :

PK

Enter Movie 2 :

Sultan

BFS Path : -- Path :[PK (MOVIE), Aamir Khan (ACTOR), Anushka Sharma (ACTOR), Sultan (MOVIE)]

DFS Path : -- Path :[PK (MOVIE), Anushka Sharma (ACTOR), Sultan (MOVIE)]

PK (MOVIE) Related to Sultan (MOVIE) through :

-- Path :[Anushka Sharma (ACTOR)]

Output 2: Multiple nodes between movies

Enter choice :

1

Enter file name to process :

input/test2.txt

Graph formed.

--- MENU ---

1. LoadAnotherFile
2. DisplayActorsAndMovies
3. DisplayMovies
4. DisplayActors
5. DisplayMoviesOfActor
6. DisplayActorsOfMovie
7. FindMovieRelation
8. FindMovieTransitiveRelation
9. Exit

Enter choice :

8

Enter Movie 1 :

Dangal

Enter Movie 2 :

Sultan

BFS Path : -- Path :[Dangal (MOVIE), Aamir Khan (ACTOR), Fatima Sana (ACTOR), PK (MOVIE), Anushka Sharma (ACTOR), Sultan (MOVIE)]

DFS Path : -- Path :[Dangal (MOVIE), Fatima Sana (ACTOR), Aamir Khan (ACTOR), PK (MOVIE), Anushka Sharma (ACTOR), Sultan (MOVIE)]

Dangal (MOVIE) Related to Sultan (MOVIE) through :

-- Path :[Aamir Khan (ACTOR), PK (MOVIE), Anushka Sharma (ACTOR)]

Output 3: Not related movies

Enter choice :

8

Enter Movie 1 :

Dangal

Enter Movie 2 :

Munna Bhai MBBS

No BFS Path :No DFS Path :Dangal (MOVIE) not related to Munna Bhai MBBS (MOVIE)