```
duestion - 5
 unfort garacio +;
 mishort gava will Scenner;
 unfrost four willedil Arraylist;
  class filma
      private String name, language, leadyctor, category;
       porvate int o duration, year of Release;
       Bublic Film UL
            name = language = lead Actor = Qa Kategory = "";
           dwestion: year Of Release = 0;
      public Film (String name, String burg, String lead Helos, String
                  Certegory, into durolion, int year Of Release of
          Absinance name;
         His language - language;
          this lead Actor = Landtetor;
          this category = category;
          this . divation = divation )
          Hus. year Of Release = year Of Release,
```

public void petName (String name) of

this name = name tolower case ();

yeten out printly (neet

public void fet Language (String language) (

thus language : language tolower case ().

word Entendegory (String entegory) & tais category: sategory. public word Set Year Of Refeare (Birt Fearl) Release & -two. year Of Release = year Of Release. public Strong getname() of Strong return Name = this name substring (0,1) to Upperlan 3 return returnAloune; public String gelanguage 12 Ening redusmidanguage: this language Eubstring(0,1).
to Upper Case () is + throw language. getwn returnlangunge; fullic gettlad Actor () of String return Lead Actor = this Lead Actor . Substring[0,1] to Oppu Casel ) of this lead Actor-holpper to Upper case () -+ this clead heter. Butst

fondur int get Year () of return this. Jean Of Release 5);

y

```
class Source Of Frenchis &
    Film[J[] create2DArray (film films[]) of
          Film[][] OverayoD = new Film[6][films.length];
         int counter[] = new ind[6];
         for (Alm film: films) 2
              of (film get year Of Release () = = 1971)
                   array 20 [0][Comber [0]+1] = film,
              else if (film get Jear Of Release () > 1971 & &
film, get Lear Of Release () < = 1980)
                     array2021 Ecounter [17-7= film;
            elle if (film. get your Of Reloan () = 1981 && o
                     film.getYearOfRelease () <= 1990)
```

array (D[2][counfer[2]+7]= film;

else if (film. get Year Of Refease () = 1991 & e film, get Year of Release () (= 2000) arraye)[3][comter[3]++)=-film,

elm if [film.getYearOfRelean() 72001 \$2 Film.getYearOf Relean() LE2010) arrayso [4] [comfor[4] ++ ] = film;

else array 20 E5] [comfor [5] 17] = A'Im;

Array Diet A Film> got Rajini Alms (Array List & Film> films) Arraylist Film> ray ray inifilms = new Arraylist Film> ( for (film film: films). if [ film, getLead tetrs (). equals (" Rajinilanth") !! film get Lead Actor (). equals ("Rayini")) 45 (film.get Language [). equals ("Tamil")); if rayinifilms.add (film); vajinifilms. Array List 2Film> getArnold Films (Array list & Film> films) of Array List & Film> ornold Films new Array List & Film>() for (Film film: films) { ef (film.getLead Achr). equals ("Armeld")) & < (film.getLanguege l). equals ("English")]X arnold film. add (film); veturn Arnold Films;

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ArrayList Lifelm's getCornedyFilms (Array List & Film > films, Grong
      Acroy List LAilmy comedy Film With Actor = new Arraylist CAlmon
     actir= actor: Enbstring (a,1). to by percase () + actor substring (1);
   for (film film: film) of
     ef (film category) eanals ("canady") & & film get has Actor.
eanals (actor)
               Comedy Ailms WithActor and (Ailm);
  return coroudy Filmwit consely Films WHALLON;
  Film get Shortest Film (Array List (Films films) of
      Film Shortestfilm = film.gd(0).
     Hort'
      for ( Film film: films) of
         if (Shartest film. gctDuration() > fr/m.gdDuration())
2. Shortestfilm: film:
     return Shothest film;
class FilmMain &
  public static void main ( strong args ()) throws ID Engthand
         Swaner Granner new Scanner (Systemin)
         Buffered Render br = now Buffered Reader (new
                                    Infort Stream Reader (Systemics);
```

>():

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System. and forint ("Enter the min of mannes, ");
n = scarner, nentlet();
ArrayList & Film > film = new ArrayList (Film > 1);
ind numOffilms = 0%
to ( wit i=0; ixn; (++) €
     film film = new filml);
     System, out Minthe ("Film"-11'+":");
     System. out. frintln ( n_ -- - ");
    System, out print ("Euler film name: ");
   String frame = br. readline();
   film, setavame (frame);
    Cysten out printed "Enter film lead actor "
    String lead = br. headline();
   System. out. front ("Enter from category,").
    String rategory = br. readline();
    film. settategory (category).
    System.ont. prot ("Center duration");
    unit duration = Integer. furschet (br. readlinel);
   Alm the Jear of Rederie for
   film, sel Duration (duration);
```

```
Source of Functions Sof = new Source Of Functions ();
 Arraylist (Film) rajinifilms = Lof-getRajinifilms(films);
Array high film > arrold films = Sof get Arrald films (films);
                   comedy Films = Sof get Comedy Films (films);
 for (Film trajinifilm: rajinifilms) of
       Cystem. out , println (" film name: " + rajinifilm. gd Nm/)
                        (- 4 film lang + rayinihilm.gotlangl));
                         (" Pilm autor" + " getleadhearly):
                      (" trim category 1 - 11 - gd-lategory ());
                   ("Film duration" + n . get Duration ());
("Film year of Rel. " p", . get Of Release ());
  11 Same for annolation variable
  Film ShortestFilm = sof-getShootestFilm(armidFilms);
 System. out. print In ("Shortest Arnold Film. "+ shortest film.
```

for (Film comedy Film: premedy Films) {

Cyrten and printin ("Film name: "+ comedy Film get Nam ());

System. " " (" lunguage: "+ princely Film get Language),

1 (" Actor"+ comody Film. get Actor ());

1 (" Actor"+ comody Film. get Actor ());

1 (" Stimilarly )

1 () Stimilarly

```
System. out. printle ("Enter the actor to get his comedy movies: ");
   String actor = br. madline();
Array List & films actor Comedy films = & of-get Comedy films
                                      (films, actor);
 for (film comedy film: autor Conedy Films) of
     System out printin ("Name: "+ conedyfilm getnamel);
    System, out, printly ("Lang: "+ comedy film. getlary ());
     u n " ("Film actor: "+ comedy film get Actor !!);
     System. Ont. printin ("Cotegory" De comedy film get (adgray));
   Systems. out. println (" year of Rel" + comedyfilm-get Your of Rell)
     There is
```