1.

```
If (items, length == 011 items, length != counts, length)
     throw new Illegal Argument Exception ();
int maxIndex = 0;
int max count = counts [0];
 for (int i=1; i < items. length; i++){
       if (conts[i]> mox(ount) {
           max Index = C;
max Count = counts[i];
 return items [mox Index];
```

```
2.
```

```
void thous Exception _ When NON unbers Provided () {
      assent Throws (
           Illegal Argument Exception, class,
           () -> { App. sum(3,5);});
3
           void thous Exception _ When Law Bound Is Higher () }
       assent Throws (
           Illepol Argument Exception . class,
            ()-> { App. sum (6,5,3,2,1);});
         void thous Exception _ when Low Band Is Ngotive () {
3
         ossent Throws (
             Illgal Argument Exception, class,
              ()-> { App, sum (-1, 5,3,2,1);});
@ Tost usid finds Sum Successfully () {
     ossert Equals (24, App. sum (5, 15, 3, 7, 8, 19, 17));
```

```
3,
    ( Before Each void setup() {
                        = mack ( Potosnice, class);
                            mock (moil service. closs):
                            new Monitor (dotosevice, moilService);
     3
               void alerts Whon Above Threshold () {
           List KIntegers list = Armys, oslist (20,30);
           when (dotoService, lost Window Of Data (onyString())), thanketum (list);
            monitor, about IRAbove Threshold ("placeholder", 10);
            Verify (moilservice, times (1)). Send Emoil (
                 eq ( string format ("metric %5 is above threshold! % d vs, %d", "placeholder"
           ) ;
                        does Not Alerts when Below Threshold () }
            List LInteger> list = Arroys. esList (20,30);
   @ Test
            when (date Source, last window Of Data (ony Strings)), then Return (list);
            monitor, obert If Abase Throshold ("placeholder", 50);
            verify (moil Service, never ());
             void oberts When Wo Doto Points ()}
            List < Inter> list = now ArroyList ();
  @ Test
            when (determice, lest Window Of Dota (on String ())). then Return (lib);
            monitor, abot If Above Threshold ("placeholder", 10);
             very (moilService, times (1)), send Emoil (
                    29 (String, formet ("No dato for metric 3/65", "place holder"))
                    ony String (),
             );
```

```
4.
    jung. AtoM. gel . ovol static tragni
    public class App &
         public static double multiply (int nx, int nz) {
             return pow(n1,n2);
    public class Apprest &
         @ Test void multiply works () }
             ossert Equals (App. multiply (2,2),4);
    Test coverage 96100 and test passes successfully but it sails to be
  expected task (ex. App, multiply (2,3))
```

5

(Usaking Directory	Index	HEAD
	z.fxf	Isaac, Asinou	Isaqc Asirav	Isoac Asimar
	g-t×t	Jules Verne		
	h.txt	Arthur C. Clarke		

6.

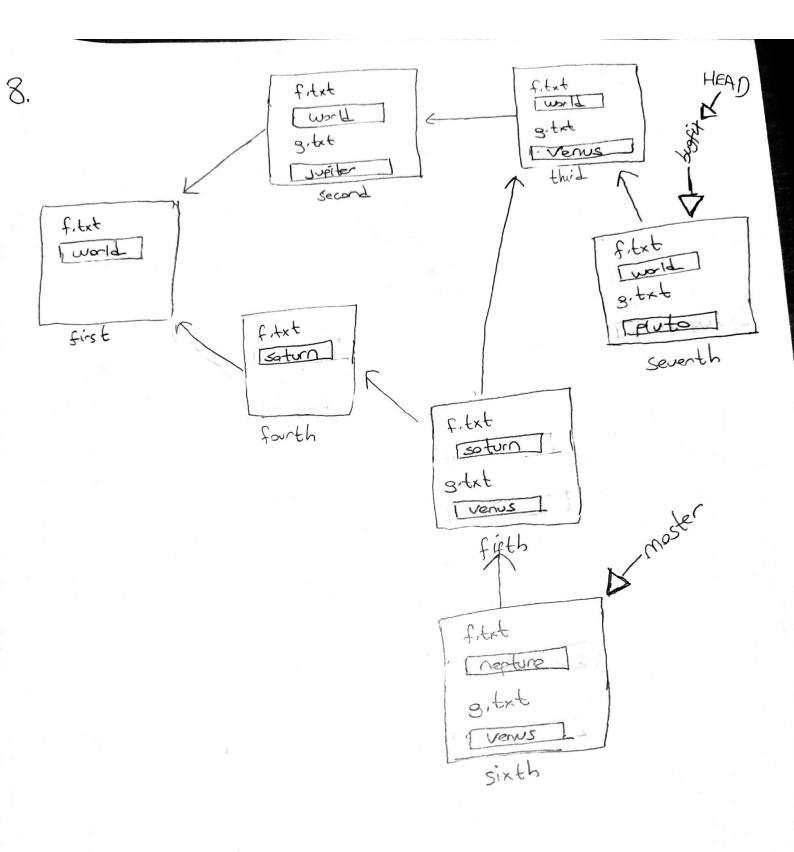
		Usalino Directory	Index	HEAD
	J. txt	Isaac Asinov	Isoc Asino	Isoc Asiron
-	g.txt	Jules vere		
	hitxt			
	1			

7,

first: mortion, txt space_odyssey, txt onimal_form.txt

second: martian tot

third: martian. txt space-odysseg. but animal-farm. txt



9,

oit init echo "armut" > f.txt git ald. git commit -m "1 Ocak" git checkant -b bugfix echo "elmo" > g, txt git add . git commit -m "50col" echo "uzum" > g,txt git odd. git commit -m 1/10 Ocak git chockant master echo "kiroz" > f.txt git odd. git commit -m "15 Ocak" git merge buggix -m "merge" echo "gyva" > f. txt git add, git commit -m "2000et" git checkout buggix echo "nar" > g. txt git odd. git commit -m "25 Ocal" git chockart moster