```
class Cox &
  pri int cc;
  pri Engine engine;
  pri String make;
     public int get ((() & g
     public Engine getEngine() 1}
     public Bring gut Make () { }
(or c = now (or (...);
c.get((();
```

```
public class Vig Cipherd

... ((C)

public String en (nypt(..) ) )

decrypt(..) ) }
```

Quake 1 EQ California EnthQuake 1 California, USA

fbp("any", "1")

```
public integrale Filter {
AL<QE> filterMag) (AL<QE> data, double min Mag)){
                                                           public boolean satisfies (QE ge);
      ALZQE> out = new ALXXI;
      for (QE qe: data) (
          if ( ge.mag() > minMag ) of
                                             public dans Min Mag Filter implement
               out add (ge);
                                                private double minMag Filter {
                                                  public MinMagFilter (double val ) f
                                                       mintag: val;
      Yehrn out;
                                                   public boolean satisfies (PF 9e) {
                                                      john ge.mag() > minMag;
ALKREY filter (ALKREY data, Filter f) {
   AELPEZ ont = new AL<>();
   for (QE ge: data) f
       if (f. satisfics (qc)) h
            out. add (qe);
   your out;
```

```
data = {
    Eq, (mag = 3.7, dyth = 150)
    F-Q2 (mag= 2.4, dyth= 550)
    EQ3 (mag= 5.7, depth = 50)
     Elq (mag: 9,0, depth = 750)
    FQ5 (mag = 3.9, deptr = 250)
     Filter fl = new MinMagFilter (4);
ALZQE> filtred Data 1 = filter (data, fl);
        (EQ3, EQ4)
   Filter f2= new MinMagFilter(6.0);
   ALCRES 12 = filter (data, f2);
```

```
public class MinDythFilter implements
                                Filter 5
              Johns
         private winder,
         public MDF (double val) {
              min Dyth = Val;
         public boolean satisfier (QE qe){
              otum ge.depth() >onin Dyth;
Filter f3 = new MDF (200);
 AL< QE> (3 = filter (data, f3);
     ( EQL, EQ4, E95)
 Filar 14=
                                 7200
ALZQE> L4= filter (data, f4); -8
                                 9<600
                                  depth
    & FQL, EQ4}
```

```
public dass MinMORDF implements Filter of
     private double min Dyth;
     privat double mexiDyth;
                                                public class locf implement For
      // Constructor
                                                    pri house vadius;
                                                    pri Location loc;
      public boolean satisfu (PE ge)of
          return gerdy (s) > min Dysh
                                                    // Cms
               Eq qe, dep() < mex Dyst;
                                                    public boolean satisfie (QE qe) of
                                                        if ( qe. loc ( ). disto (loc)
                                                                      ? ( with >
                                                            return true;
Filter for - New MinMar DF (200,600);
ALKQE> 4= filter (data, 4);
                                                             redum falm;
Filter fo= new MinDF (200);
Filter to = new Max DF (600);
ALC QE> ls= filter (data, fs);
                                                  Filts tr = now Locf (J, 1000);
                                                  PL<QE> Ly = filter (data, fx);
MCQETLG = tiles (Ls, fo);
```

```
public interface Animal of
    public void makesound();
 public class Doginglements Animal (
     public void makesound() of
         print ("Wouf");
  public class Cot implements Animal (
      public void matesound () of
          print ("Meske")-,
[ Arrival at = new Arrival ();
                               7 Dog a4 = new Animal (); X
2 al·make sound(); X
                               & af nake Sound (1; X
                               9 Arrived as= new Cat(); /
3 primal a2 = new bog(); /
4 22. mS(); // Woof
                               10 as make sound (); // Meow
5 Dog a3 = nu Dog (); /
                                  a3 = a5; X Dag a3 = new Cat(). X
6 as , MSC); // WOOF
                               12 AS.MS();
```

Pog() dogs = nw Dog [37; Animal() animals = new Animal [3); animals (0) = a2; animals (1) = a3; animals (2) = a5; ALCQE> l1 = filtr (data, f1); >>5.0

ALCQE> l2 = filtr (l1, f2); >>3000

ACCQE> l3 = filtr (l2, f3); &< 6000

(>5.0

G 3000 > dy < 6000

E < 1000 km from Colifornia)

|-le[lo:\_\_\_ 0,8+45 Hell: --- 12.5731 [X-DSpam-anfidence: -]0.213 a=[1,2,3] b = [4/5] for a in b: a append (b)

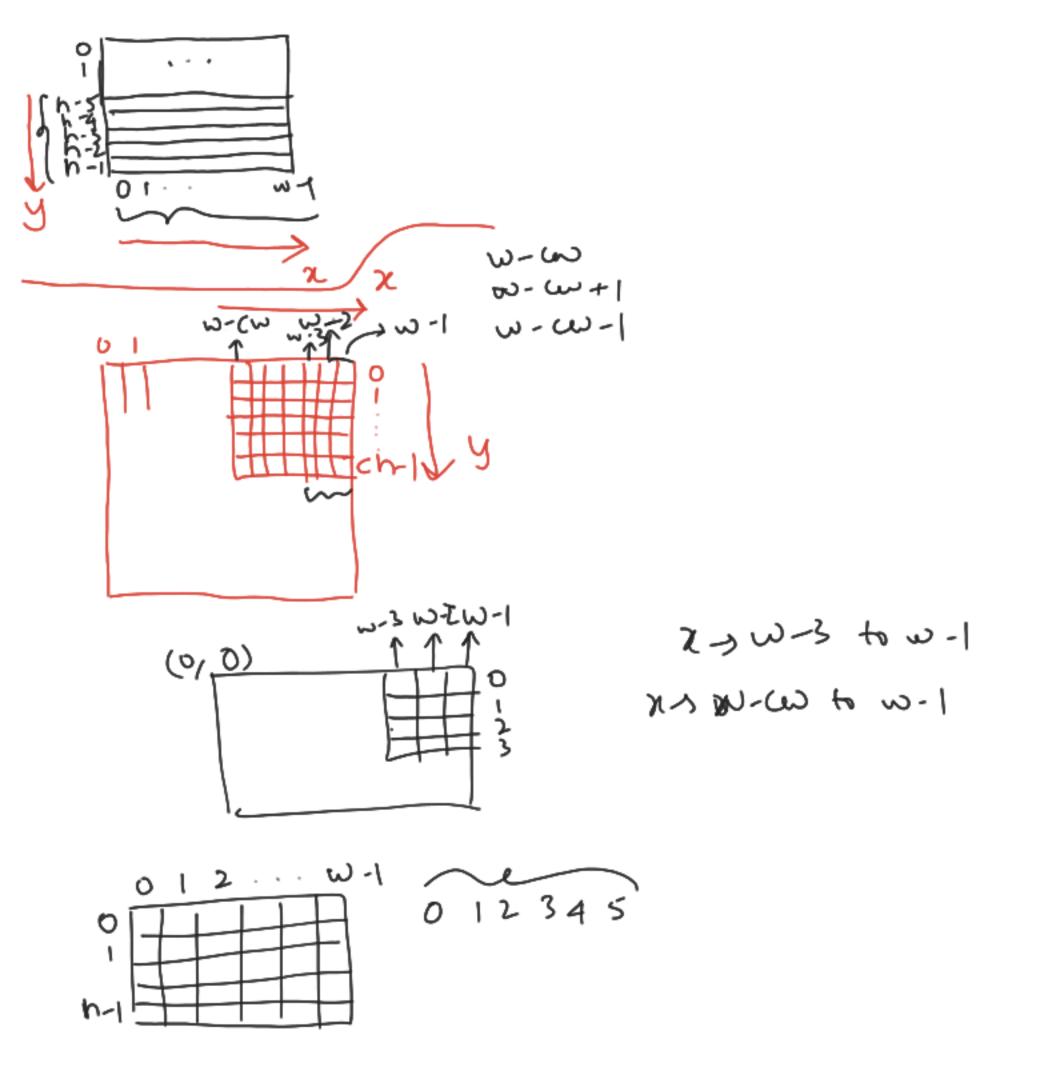
a.append(b) for z in b: a.append(x)  $\begin{bmatrix} 1,2,3,4,5 \end{bmatrix}$   $\begin{bmatrix} 1,2,3,4,5 \end{bmatrix}$   $\begin{bmatrix} 1,2,3,4,5 \end{bmatrix}$  aa bb cc ad st→57

Line -s " on the cc and"

worde -s ["aa", "bb", "ki", "aa"]

```
mag > 5
                                              mag >4
   200 < depth < 300
                                              150 Zdy Z 600
 public dan Mag Dysth Filter
                                                100bm radius of LA
             inflements Filter of
                                          public Mag Doplac Filter in PFE
        minMag;
                                                MinMag,
        mir Dep;
                                                mn Pap;
        mix Pep;
                                                mon Dep;
        11600
                                                dist;
        satisfier (PE ge) 1
           ret qe. mogi) >= minmog
             gege dy()>=minter
                                                 1/ Come
             Eq qc. dep() <= mor Prp;
                                               satisfier()
                                                   1/ dy, meg, loc
Filter F: New Mag Depth Filter (5,200,300);
ALKQE> &= filter (list, f);
```

```
List = T
    "2002 Colifornia".
    1997 Jopan 200150"
    "2007 Jakosta"
filter ("200", "stort)
f1 = MagFil (3.0,7.0)
f2 = LOCFIL (tokyo, 1000...);
f3 = Phr Fil ("any", "hello");
YI= filter (list, f1) } >> Filter f= new Match All Filter ();
82 = filter (8/,f2);
                          f. rold Filter (f1);
~3= filter (~2, f3);
                          f. add Filter (f2);
                           f. add Filters (f3);
                           8 = filter (list, f);
```



```
22020
                                   numRows = arr. length
          (A,B,C)
                                   rum (ob = atr (o). length
                 (022(1)[1]
                               > for(c=0; cxnc; c++) {
                                     for (8:0; KINR; 8++) (
                                          print (are [x](x));
for ( 7=0; 1<0R; 1++)
   for(c=0; < < <>) (++) of
       print (axx[x](c));
```



softed not surget

$$0$$
 1 2 3 4 5  
 $35$  17 9 3 11 1  
 $i=2$   
 $an = 4$ 

Swap at is i

relim I = in.get(i)

I relim J = in.get(j)

in.set(i, elem J)

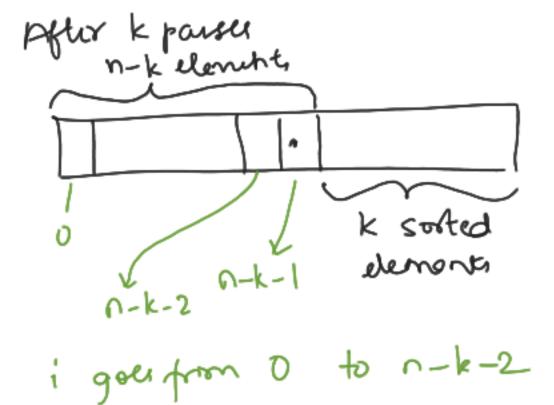
in.set(j, elem I)

elem I = l·get(i) elem I = l·get(i) l·set(i, l·get(j)) elem J = l·get(j) l·set(j, elem I) l·set(i, elem J) l·set(j, elem I)

17 11 19 7 4 3 1

17 19 11 9 4 3 1 19 17 11 9 4 3 1 19 17 11 9 431

0.12... 0.12...



compore a li) { a [i+1]

a way if they are in wrong

order



J I pars

L 2 pars

Softed

'n' timu for (i=0; i<n; i++) for (i=1; i <= n; i++) n-1 times for (i=0; i<n-1; i+1) for (i=1; i<=n-1; i++) n-3 times for (i=0; i < n-3; i++) for (i=1; i <= n-3; i++) k time too (i=0; i<k; i++) } for (i=1; i=k; i++)