```
a=" Hullo world"
b="One Hullo world"
 C = " mould for ",
       re. search (" Hello", b)
       reis ("worldg", a)
  a = " hello @ world"
 ~ ("@·+", a) → ["@word"]
   7e.fa("^h.+o", ")->["hello@wo"]
   b= "ho" c: "abc"
x= "hello hi"
    re.ba("h.*o", b) → ["bo"]
    re.fa("h.+0", b) -> []
     de.fa("a.*b", c) → ("ab")
     81.f~("b.+c", c) → []
                              a = " Email: roben @grail.com end"
     15 - whitespre
                              ve. {a("\5+@.+",a)
     15 - non whitespace
```

a = "From; comis" b = "[Ke] From: Kimail" re. Gorch ("From:", x) -> T YL. 5 ("Frm:", b) -> T re.s (" From: ", a) -> T 7e.5("^From:", b) -> F a = "X-Sieve: Kbc" - "X: ay" 4e.s("^X.*;", a) → T ne·s("^x.+:",a) → T 82.5 ("^×.x:", b) → T de, s("^X.+:", b) → F reis("^X\Sx:", a) " Xabc: "

a: "Email: rohan@gmail.com end" re.fa("\5+@\5+?", a)→["rohon@g"] de,fa("\S+?@\S+?",a)→["n@q"] xe.fa("@\s+",a) -> ["@gmail.cm"] re.fa("@\S+?",a)

my Text = [['hello", "hom") 'are", "you"] target = WG (["has", "ore"]) indenof (my Text, target, 0) my Tent = [a, b, c, d, e, a, b, h, i)] target - [a,b] > wa index of (my Text, torget, 3) -> 5 i = start to (len-target.len) WG curr = new x/4 (myText, i, target. Lun)

$$a = [a,b,c,d,t]$$
 $w \in \infty = new Ing(a,2,2);$
 $[c,d]$

myText= [a,b,c,d,e,a,b,c),h,i] order = 3 getRandom Text(7) key + w q [e, a] SB sb = new SB(); sbos "e, a' wowq ["ww", "cre", "you"] NW=5 "c a" witoskings) of "how are you") nw-0 > 3 for (i=0; i < 3) key = W((6,h,c)) W((6,c,h))

```
my Text: [a,b,c,d,a,b,c,i];
order=3
follows May = {
     [a,b,c]: [d, i],
     [b,c,d]:[a],
     [c,d,a]:[b],
    [d,a,6]:[c]
  map = new HM();
   all = new ALXStr> ();
   d1.add("ab");
   map. put ("a", d1); d
"a" (["ab", "bc"])
   magiget ("a"). add ("bc");
```

Random r = New Random (42); r. next Int (100); //37 r. next Int (100); //5

m. setRandom (42)

```
movies.csv

id, name, grav

15, Namion, 2005

215, Tunet, 2021
```

```
7-id, m-id, rat

1 11 5 81 = new Roth ("1")

1 7 9 81 add Rating ("11",5)

1 8 3 81 add Rating ("1",9)

2 11 9

2 13 10 72 = new Roth ("2")

2 13 10 72 = new Roth ("2")

72 add Rating ("11",9)
```

a = "rohan" b = "rohan" c = "rohan" $a == b \rightarrow F$ $b == a \rightarrow F$ $a == a \rightarrow F$

 $mi \rightarrow [0, 7, 67 \rightarrow (*, 2, 1]]$ dp = (2x-2)+(1x4) $V \rightarrow [5, 3, 97 \rightarrow [0, -2, 4] = 0$ Rater me ()
Rater me ()
ALKRabings> 1 top 10 similar roters (Sold) 30 20 (Ration > 1 (x1, 12, 13) Nov m 3 7 5 Nov m = (50x3)+(30x7)+(20x5) Shringfor m = (50x3)+(30x7)+(20x5)

top Similarities =
$$[715, 71, 779, 7105]$$

200 150 100 55

minimal ratex = 3

Opperhainer 7 - 9 - $\rightarrow wa = \frac{(200 \times 7) + (100 \times 9)}{200 + 100}$

Troy 6 9 - 5 $\rightarrow wa = \frac{200 \times 6}{200 + 150} + 50 \times 5$

$$234 \quad 3285 \quad 1297$$

$$15 \quad 10 \quad 6 \quad 2$$

$$20 \quad 9 \quad 4 \quad 7$$

$$4p = (10-5)(9-5) + (6-5)(4-5) + (2-5)(7-5)$$

$$= 20 + (-1) + (-6)$$

$$= |3$$

Title	Postes	Director	Genses	
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