9 1 b 3 e -2 c !

a163e-2011

For "abecd", the answer should be "a1b3e-2c1d", as

$$e'-b'=3$$

$$|c' - |e'| = -2$$

$$'d'-'c'=1$$

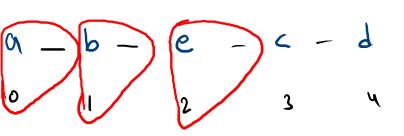
y - la'

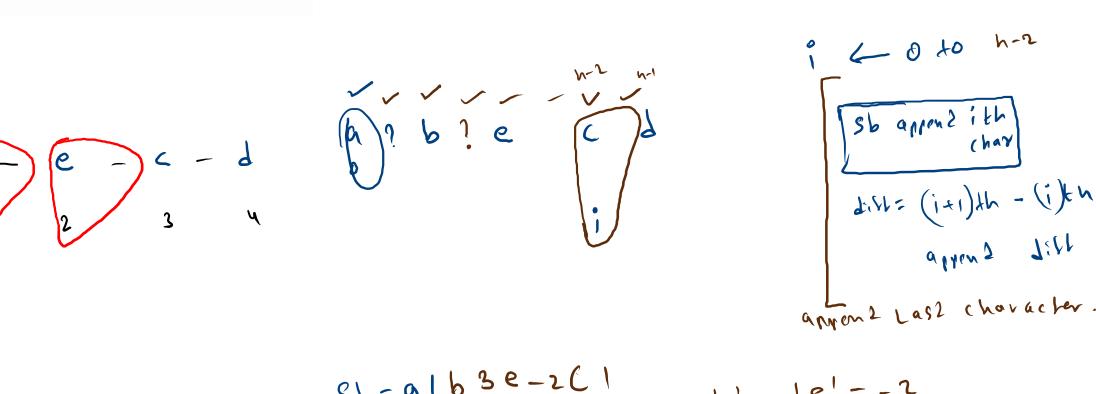


9 5



For "abecd", the answer should be "a1b3e-2c1d", as 'e'-'b'=3





'd'-'c'=1

$$|c' - |e' = -2$$
  
 $|e| - |b'$   
 $||c' = |$ 

8/x ->

n 0/3/

11 Iteration

abl

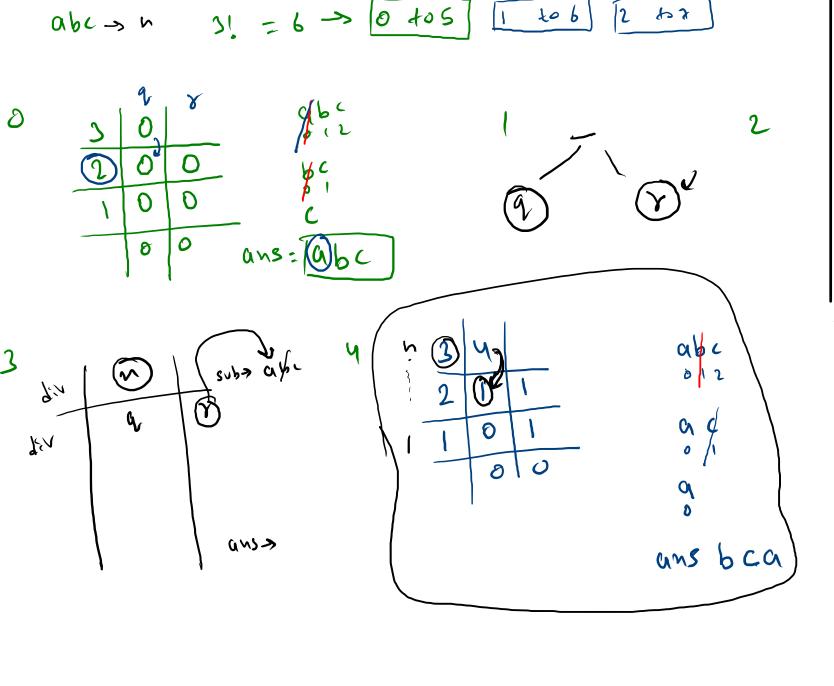
buc

cab

acb

609

cba



folul= o to total-1 val <ner shirsbuilt (str); ans \$D n = val; n = V abdoile 5 9 0 0

O

ans c ba

eixed

Arrastist

insen/ delete

70 20 50

Arraglist (Integer) list = new Arraglist<>();

Miras ar.lengsh n=arli32 ~ Wh. "> Jys liss. size () 1152.922 (10) KW /

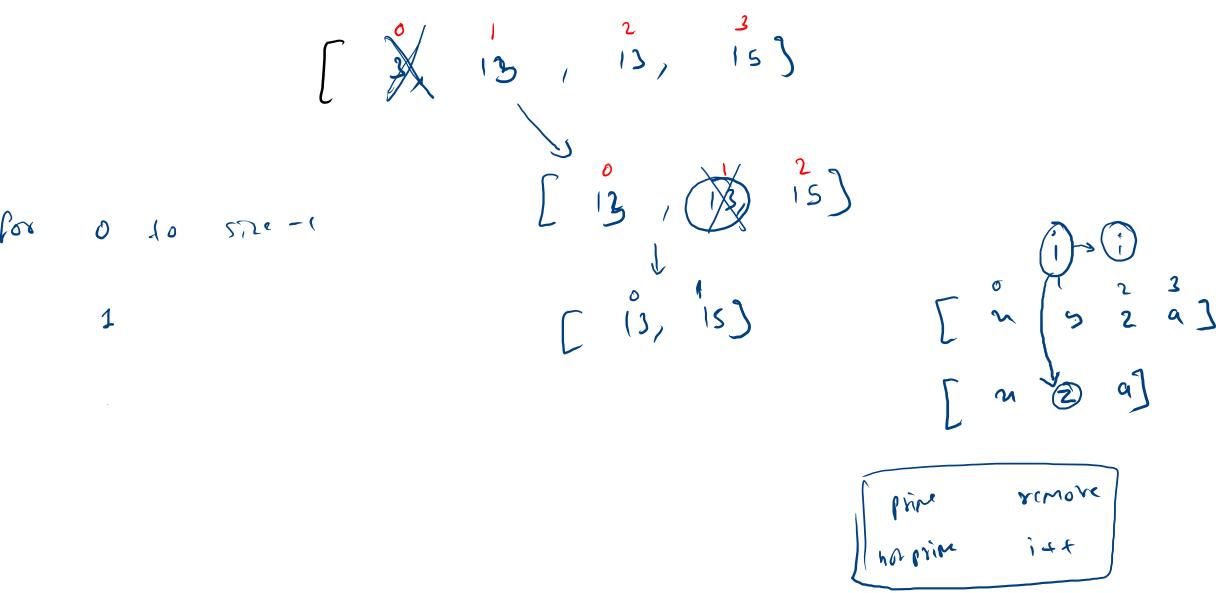
n= 1882. get(i)

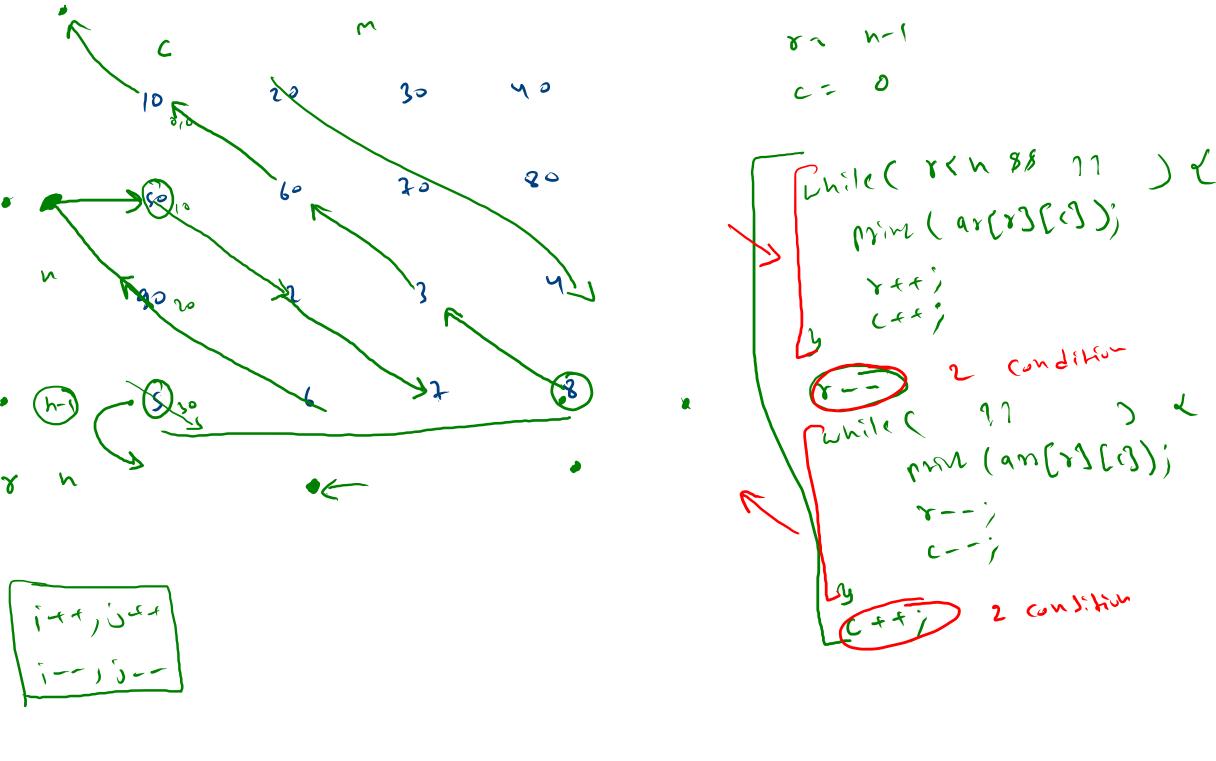
list. sek (i, m);

remove(i)

[ 3, 13, 12, 15]

3 12 13 15





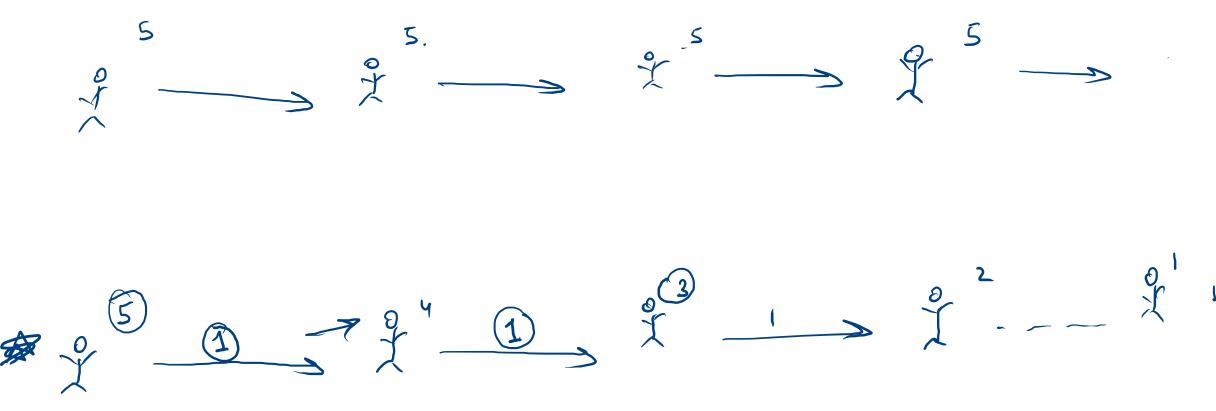
Jura Kon

5! -> 1×2×3×4×5

Recursion

 $\rightarrow$   $5 \times 4!$ 

5 + svm (4)



Recursion (51)  $\rightarrow 5 \times (41) \times (41)$ 

Expectation

Faith

Faith

Faith

Fuith

h = 5 h 2 2 faith Expectation h=5 h-1 h 4 3 sell worke 3 h-1 2 2

```
\begin{array}{c} 5 \\ 5 \\ 2 \\ 2 \end{array}
```

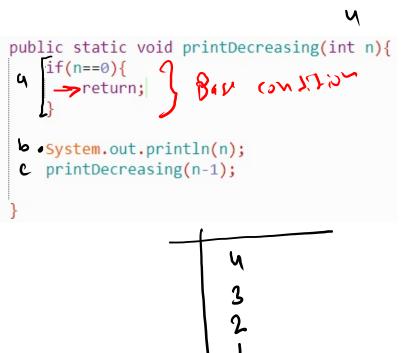
```
public static void printDecreasing(int n){
    printDecreasing(n-1);
}
```

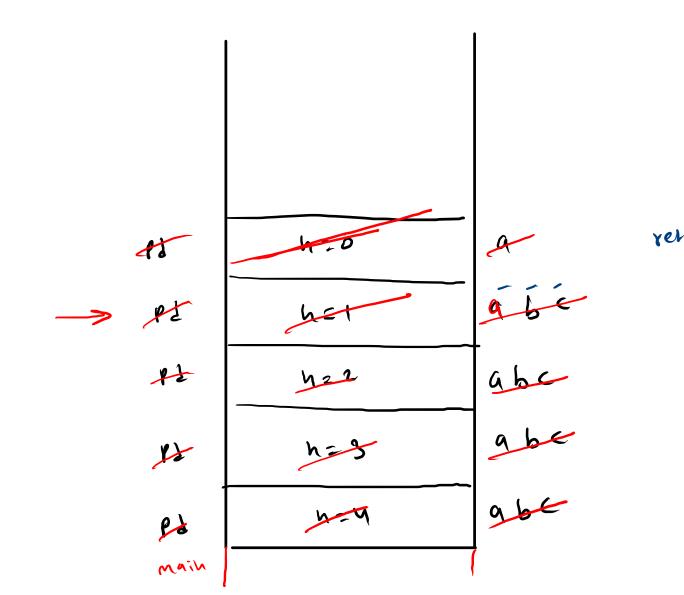
```
public static void printDecreasing(int n){
    System.out.println(n);
    printDecreasing(n-1);
}
```

```
public static void printDecreasing(int n){
    i(h::o) *chm
}
system.out.println(n);
printDecreasing(n-1);
}
```

		n = -3
		h=-~
y 2	1	h=-1
p 2	{	h:0
17	(	h=1
17	{	n = 2
٦٩	٩	h = 3
لے	a	h = 4
( )	$\left\{ \left[ \right] \right\}$	h = 5

mule





all statements

returns

Expectation faith 4

Chilh PI(4)
Print(5)

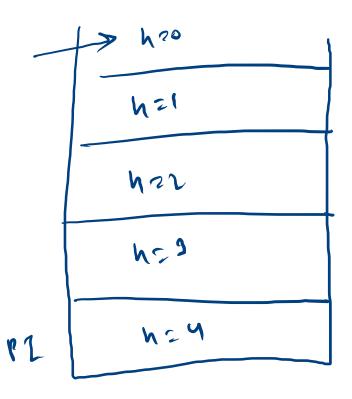
expel h

N

pr(h-1)
pr(h-1)

```
public static void printIncreasing(int n){
    printIncreasing(n-1);
    System.out.println(n);
}
```

1 1-



```
h2 4
```

```
public static void main(String[] args) throws Exception {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    printIncreasing(n);
}

public static void printIncreasing(int n){
    if(n==0){
        return;
    }
    printIncreasing(n-1);
    System.out.println(n);
}
```

