

Dictionary Order

$n = 14$

1 2 3 4 5 6 7 8 9 10 11 12 13 14

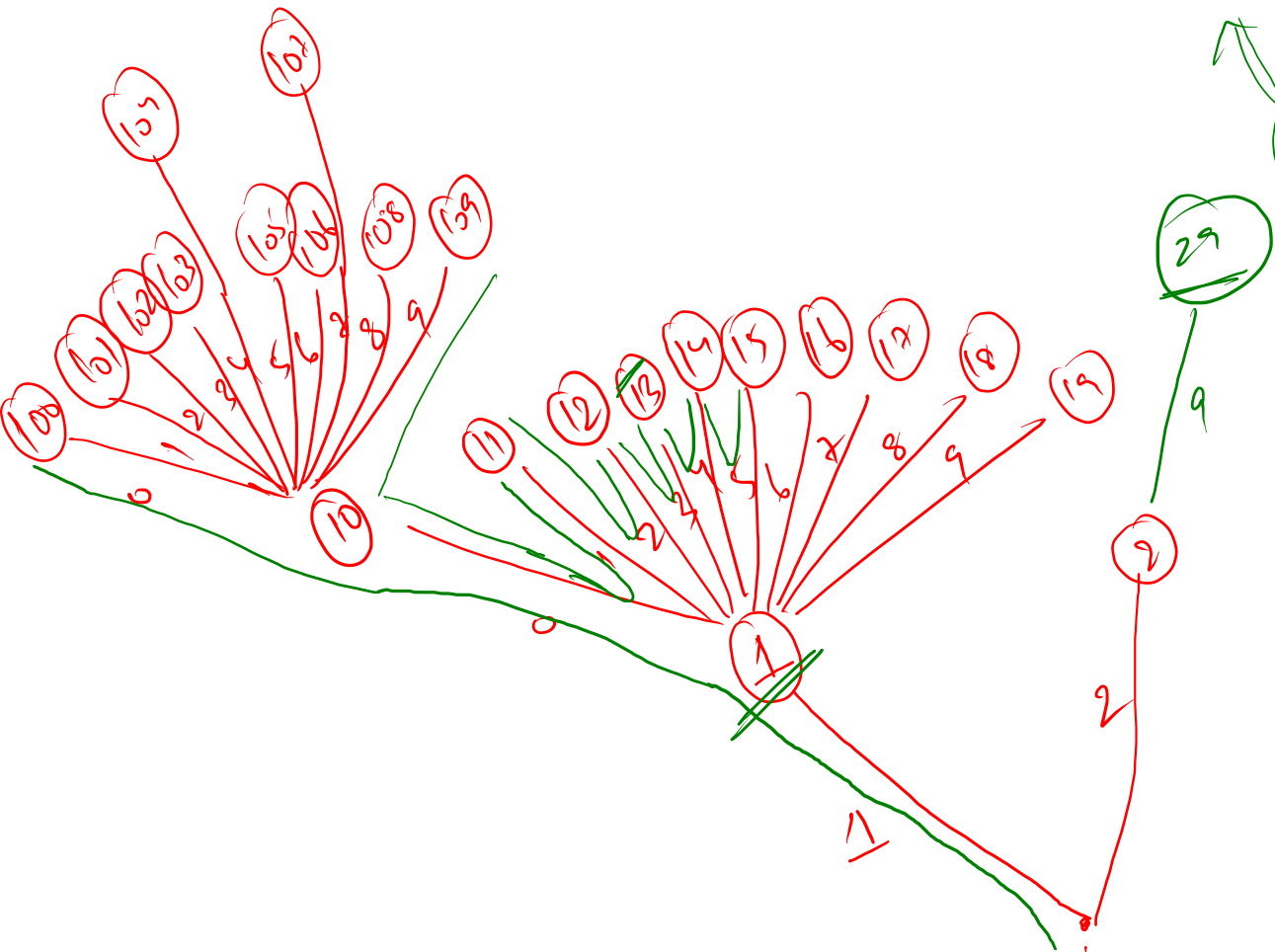
(--)

1	2	3	4	5	6	7	8	9
10	20	30	40					
11	21	31	41					
12	22	32	42					
13	23	33						
14	24	34						
15	25	35						
16	26	36						
17	27	37						
18	28	38						
19	29	39	49	59	69	79	89	99

100	110	120
101	111	
102	112	
103		
.	.	
.	.	
.	.	
.	.	
.	.	
.	.	
109	119	

100 →

num \rightarrow 10



ans = 1
 $(ans * 10) + digit;$

Try

ans = 2
 $(2 * 10) + 9$
29

1
10
11
12
13
14
15

$n=14$

1, 10, 11, 12, 13, 14, 2

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

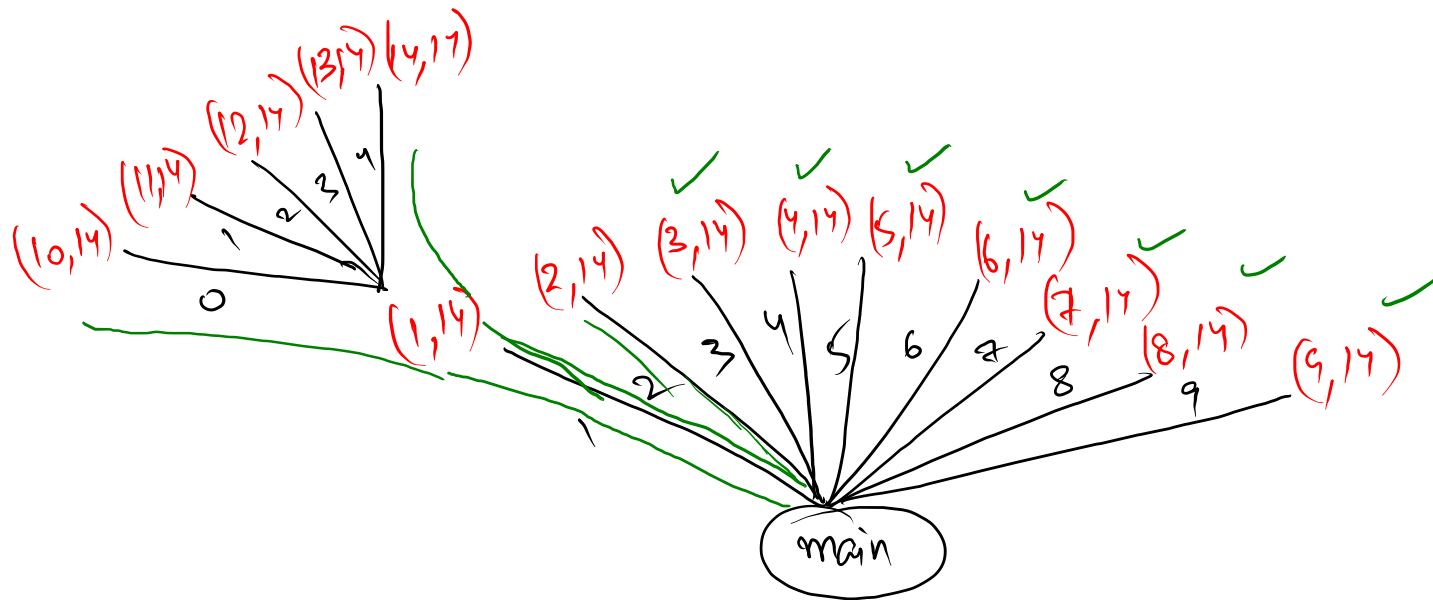
    for(int i = 1 ; i <= 9 ; i++){
        solve(i,n);
    }

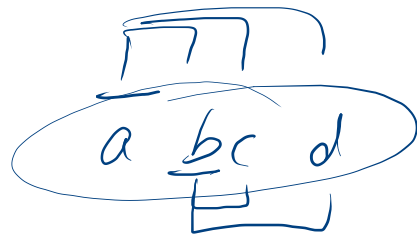
}

public static void solve(int num , int n){
    if(num > n){
        return;
    }

    System.out.println(num);

    for(int digit = 0 ; digit <= 9 ; digit++){
        int newNum = (num*10)+digit;
        if(newNum <= n){
            solve(newNum,n);
        }
    }
}
```





pep

Conseq 1's → Dec

000 →	pep
001 →	pe1
010 →	p1p
011 →	p2
100 →	1ep
101 →	1e1
110 →	2p
111 →	3

ABCD

0000

→ ABCD

0001

→ ABC1

0010

→ AB1D

0011

→ AB2

0100

→ A1CD

0101

→ A1C1

0110

→ A2D

0111

→ A3

1000

→ 1BCD

1001

→ 1BC1

1010

→ 1B1D

1011

→ 1B2

1100

→ 2CD

1101

→ 2C1

1110

→ 3D

1111

→ 4

Question

Combinations

Select

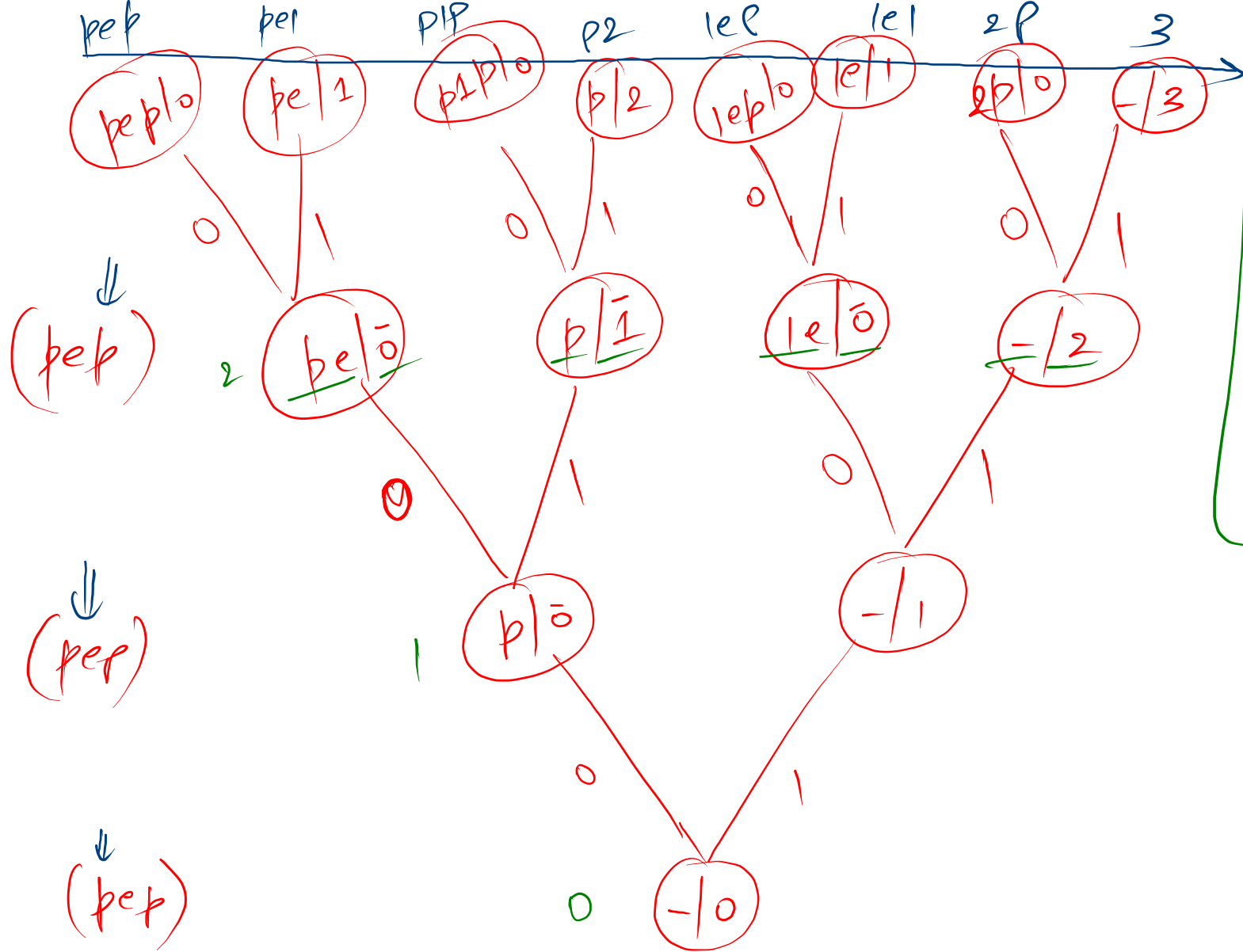
$$2^4 = {}^4C_0 + {}^4C_1 + {}^4C_2 + {}^4C_3 + {}^4C_4$$

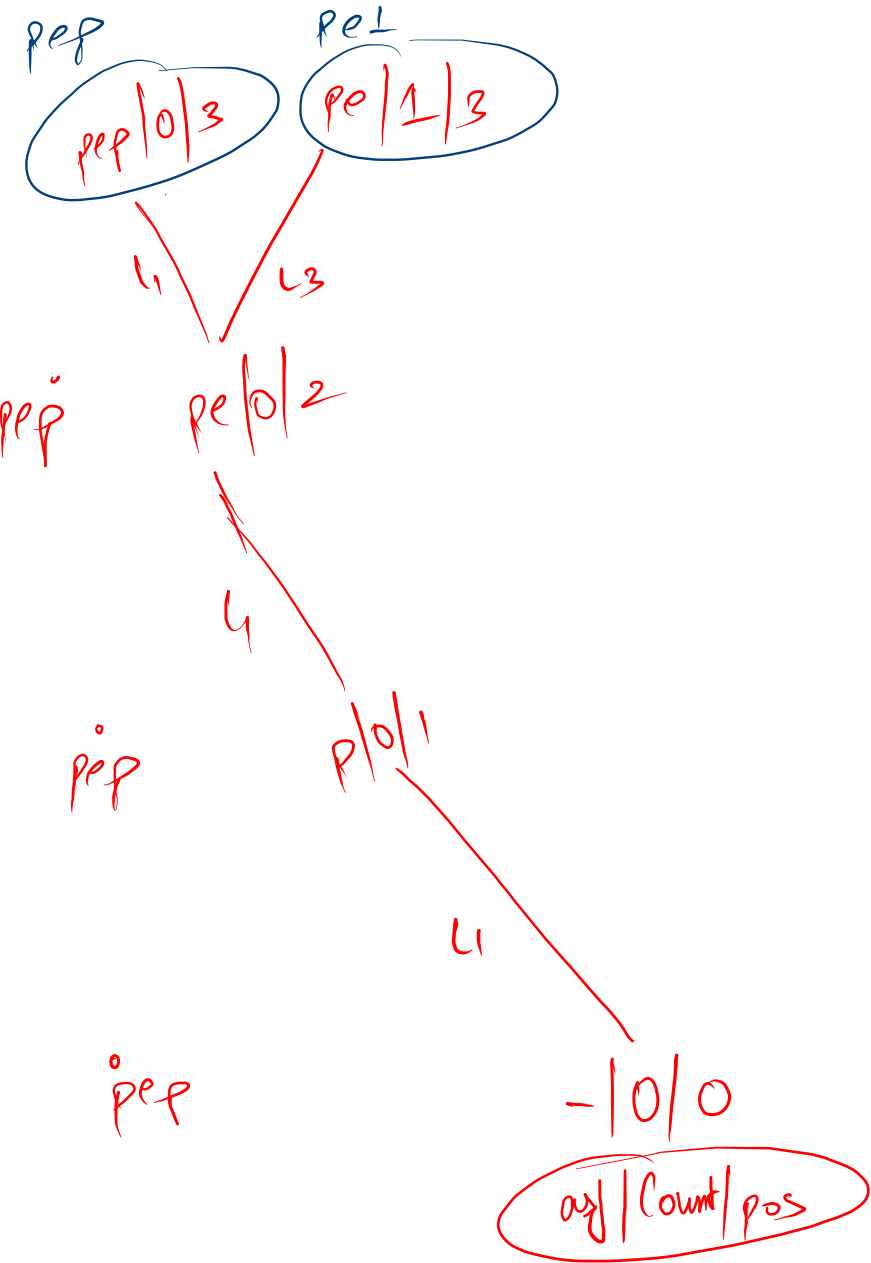
Permutations

Arrange

Unique

Distinct





```

public static void solution(String str, String asf, int count, int pos){
    if(pos == str.length()){
        if(count != 0){
            System.out.println(asf+count);
        }else{
            System.out.println(asf);
        }
        return;
    }

    char ch = str.charAt(pos);

    if(count == 0){
        solution(str, asf+ch, 0, pos+1);    -1
    }else{
        solution(str, asf+count+ch, 0, pos+1);    -2
    }

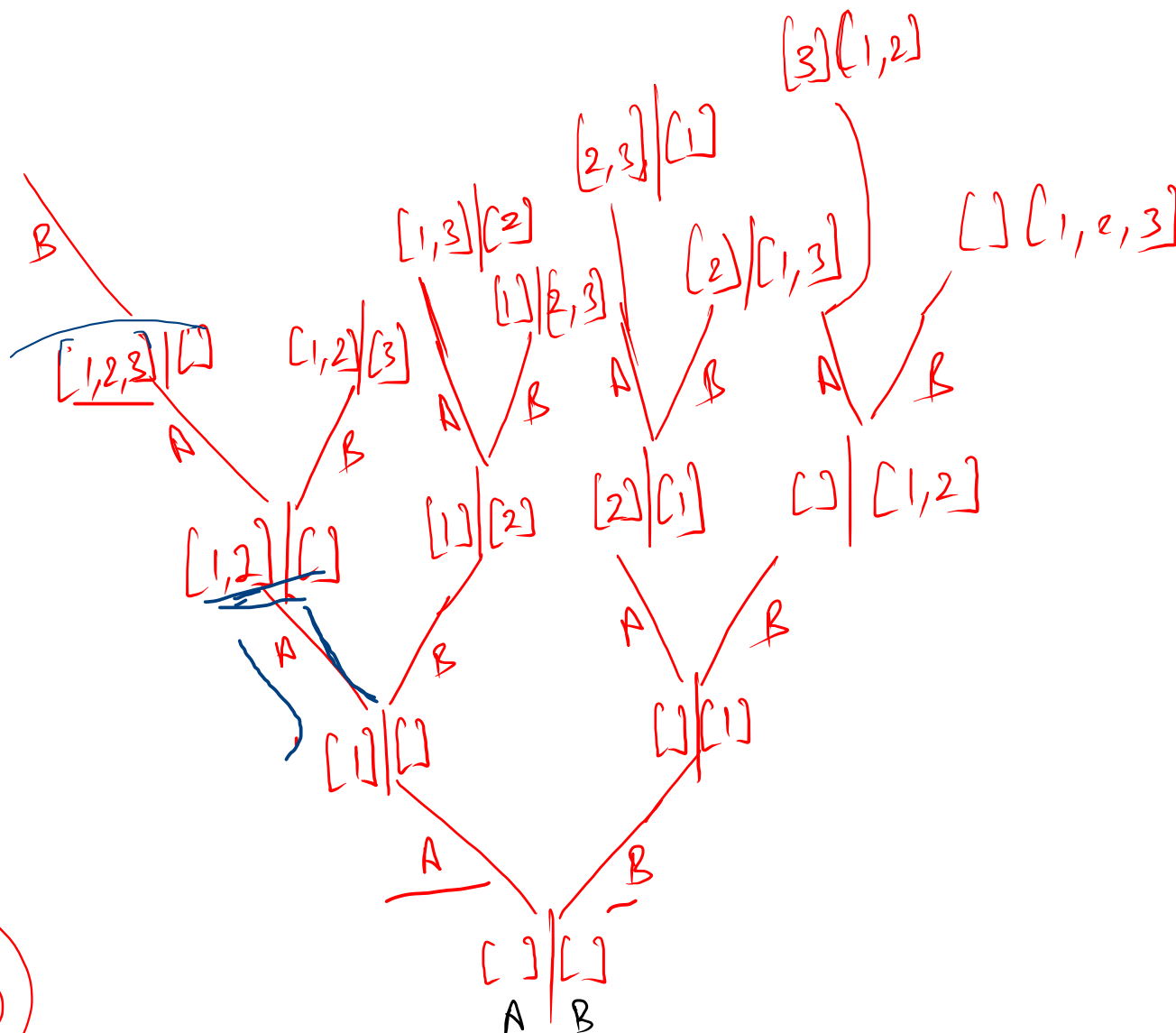
    solution(str, asf, count+1, pos+1);    -3
}
  
```

✓✓✓ ()
_____ B

A handwritten red ink diagram. It features a large, irregular oval. Inside this oval, there is a smaller circle containing the text "3, 3". Above the large oval, there is another circle containing the number "3".

✓✓

6 1 2 3 4 5 6



④

3

2

①