

Ques Print all the subarrays

1 | 2 | 3

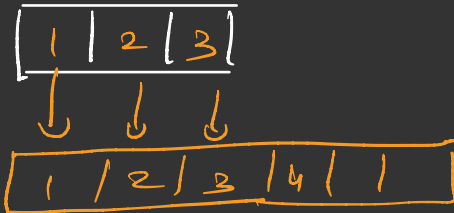
1
1 2
1 2 3
2
2 3
3

Expectation
pas(arr, 0)

Faith
pas(arr, 1)
2
2 3
3

ArrayList

Array → size is fixed



Dynamic array

0

You can not create arraylist of primitives

Wrapper Classes

int \rightarrow Integer

byte \rightarrow Byte

Short \rightarrow Short

float \rightarrow Float

Double \rightarrow Double

Long \rightarrow Long

boolean \rightarrow Boolean

char \rightarrow Character

Syntax

`ArrayList<Integer> al = new ArrayList<Integer>()`

Ques Print Subsequences of a string

abc \Rightarrow

a	ab	
b	bc	
c	ac	abc

$2^3 \Rightarrow 8$

$ab \Rightarrow$

--
a--
-b
ab

_ _ _
 a _ _
 a b _
 a b c
 _ b _
 _ b c
 _ _ c
 a _ c

a b c _ _ _
 _ b _
 _ _ c
 _ b c
 a _ _
 a b _
 a _ c
 a b c

Expectation

_ _ _
 a _ _
 a b _
 a b c
 _ b _
 _ b c
 _ _ c
 a _ c

Faith

→ _ _
 b _
 _ c
 b c

Combine

AL e = ss(bc)

new AL → res

res.add("" + e);

res.add(a + e)

public static ArrayList<String> getAllSubSequence(String s

```
char firstChar = s.charAt(0);
String rem = s.substring(1);
```

```
ArrayList<String> recResult = getAllSubSequence(rem);
ArrayList<String> myResult = new ArrayList<String>();
```

```
// add all the elements of recResult with empty string
for(int i = 0; i < recResult.size(); i++) {
    String element = recResult.get(i);
    myResult.add("" + element);
}
```

```
// add all the elements of recResult with first char
for(int i = 0; i < recResult.size(); i++) {
    String element = recResult.get(i);
    myResult.add(firstChar + element);
}
```

```
return myResult;
```

s = abc

a ↓
 bc
 b ↓
 c
 c ↓
 " "

