**Search Pattern(KMP-Algorithm)**

**txt = "geeksforgeeks"  
pat = "geek"**

**Output:   
1 9**

**Explanation:   
The string "geek" occurs twice in txt, one starts are index 1 and the other at index 9.**

**Approach:**

**Txt. indexOf(str pat,int ind)** this method searches the pattern in the given string from the specified index. If it founds return index otherwise -1.

class Solution

{

ArrayList<Integer> search(String pat, String txt)

{

// your code here

ArrayList<Integer> res = new ArrayList<Integer>();

int i=0;

while(i>=0)

{

i = txt.indexOf(pat,i);

if(i==-1)

{

break;

}

res.add(i+1);

i++;

}

if(res.isEmpty())

{

res.add(-1);

}

return res;

}

}