

Pseudocodes :

1)

```
HashMap<Character,String> using_first,using_last;
int n=args.length;
for(int i=0;i<n;i++){
    using_first.put(args[i].charAt(args[i].length()-1),args[i]);
    using_last.put(args[i].charAt(0),args[i]);
}
Iterator itr_first;
char ch;
while(itr_first.hasNext()){
    Map.Entry mapElement = (Map.Entry)itr_first.next();
    ch=mapElement.getKey();
    if(!using_last.containsKey(ch))
    {
        s=mapElement.getValue();
        break;
    }
}
ch=s.charAt(s.length()-1);
while(using_first.containsKey(ch)){
    s1=using_first.getValue(ch);
    s=s+s1;
    ch=s1.charAt(0);
}
```

3)

```
do{
if(s.charAt(0)==s.charAt(n-1))
    left=0;
    for(int i=1;i<(n-1);i++)
        if(s.charAt(i)==s.charAt(i-1))
            left=i;
    else
        break;
if(left==(n-2))
    len=0;
else
    for(int i=(n-2);i>=1;i--)
        if(s.charAt(i)==s.charAt(i+1))
            right=i;
    else
        break;

    for(int i=(left+2);i<right;i++)
        if(s.charAt(i)==s.charAt(i-1))
            ind=i;
        break;
    s=s.substring(ind+1,right)+s.substring(left+1,ind+1);
```

```
}  
while(s.charAt(0)==s.charAt(n-1));
```