

2) 
$$(\alpha \cdot \alpha^* b + b + c^* b) \alpha^*$$

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```
4) public static boolean Automat (String 5)/2
int curres = 1;
for (int i=0; i 2 5. length(); i++) 5
 if (curr Pos == 1) {
       if (S[i] == 'a') { curr los = 3:7 else
       if( s[i] == 'b') { currlos = 2; 7 else
      if (S[i]== 'c') 5 cyrrlos = 7; 3 else

{ cwn los = 0?;
 if(currlos == 2){
     ig (S[i]=='a') 5 cmrlos = 4; 3 else
    < curalos == 0;?
  if (curr 105 == 3) {
     if (5[i] == 'a') { currlos = 3; } else
    if (5 [ i] == '6' 7 9 currlos = 4; 7 else
    5 curr (05 = 0; 3.
 if (curr los == 4) (551) == a) (curr los = 4;?
  else { curros = 0,7 32
 if (curros == 2 1/curros == 4) (return true; )
else return false;
```