Exp2 : Checking wheter Astoing belongs to Growning

To write a c progream to check wheter a string belongs to the grammas

S->OAI A->GALIALE BOOMS STANIST

Larguage defined by the Greammas

Set of all Strings over $\xi = \xi_0, 13$ that

Start with 0 and end with 1

Algorithm:

1. Get the Input Stoing from the uses.

(1) -103298 (0) -10/12) +

- 2. Find the length of the string
- 3. Check wheter all the Symbols in the

Input are either 0, 00 1. If soil Point

"Steing is valid" and go to step 4.

Otherwise Print "String not valid" and quit the Program.

4. If the first Symbol is a and the last Symbol is 1, Point "Stoing accepted". other Paint "Stoing not accepted"

Pagam

include < stoing. h >

```
int main ()
  Chars Electi
   inti, flag; and a represent grand
   intli
  Pointf("Entex a String to Check");
  Scanf ("1.5", S);
  1 = Stolen(s); 10 go board spaggross
  foo(i=0; i<1; i+1)
      1 Atherbors born o dies sente
  if CSE ]1=(0) & & & & & & )1=(1)
    fbg=0;
  2 And the leadth of the stains [
if (flagt = i) alt 110 estances Noard &
 Paintf ("String is not valid In");
 if Cflag==D) home
 3. if Cs Co J = = 61 & 8 s C - 13 = = C1) 3 i
   Pointf("String is acceptedIn");
 else
 Pointf ("String is not accepted In");
```

Output Enter a String to Check: 01010111101 String is accepted Enter a String to check: OIII Glolo110 Stoing is not accepted Enter a stringito check: abbbbababa String is not valid expert of the section one the ordered (in of scretory Londingary b-8 4 sandso & scilostint bas anostioned salt soos s for the townsitions focus every stote And assert and lodings tight of tow to compromise out to as its interpret in Patoto 10 archoto 1223222 33