NB 418 CS 177 6 C Grogram Number: 04 Tarush J. Reolahy Question Answer 4.6 # ireludes oddio hy # includer string. My ind K-0 - Z=0) j=0, c=0; chon aliby, action, starlist, ad [10], void check(); void maine) 13 6 7 E + E - N - E 7 E & C IN E + C E) In pets (" anomman E 7 id 10: parts eventen input string -1); Stor(a) C = 8 + nlen (a); Stricky (act, "SHIFT >") puds ["Stack it input it aedion");

bon (K:0) i=0, ixc; k++; i++; i++) 1 ; { latij] == 1; " && a [i+1] == 1 di) etr [i]: alij; Stk [i+1] = a [j+1]; gto (1+2)=1101; a TiJ= ' ';
atit = 1 ',

```
print(11 10 $ 181+ 18 $ 17.18 id 10, 3 str 10- act).
  cheek ()
else
Str [1] - 26]]
し、い、本では、コマヤの
0 G J = 11 1,
print[ "10$ x8 1+1 8$ x+1 8 8 ym 60) 1011,841, a. act)
oned (),
void check()
strety (ac, " AFDUCE TO En);
607 (2=0; Z < c; Z++)
  if ( sux[ z] == 1 , 28 SUR ( z+1) == 101)
  stk (2+1) = 10 /
  privite 1" \n$ 1.8/+ 1.8/+ 1.8/ $ 117.8/n0, express);
  j+t'
for (2=0; Z(C; ±++)
 3/(SHR ?2] = = 'E' DD SHR[Z+1] = 1+1 DD SHR [Z+2] = = 'E')
 Str (2J - E')
```

odk [2+1]: 100 Duint ("10\$ x8-1+x \$ x+.x8x4" & 345 - x - 300); for (2=0; 240; 2++) if (84x[2] = = 1 E' dd str[2+1]=='+' dd sto[2+2]==E stk[2]='E'; SHR [2+1] = 10) SHR[2+2)=1000 Print (18 \$181+1.8 \$ H. 181 12, 840, a ac); i = 5-2for (2=0; 2<C; 2++) if Cota[2] = E'c' de sta [2+1] = 'E" se sta [2+2]. Str [Z] = (E') 8th (2+1)=10; 8th [2+1]=10) print = 1"\n\$"/8\+"/8"\$ 1+ 18 \0", StR, a, ae) j=j-2) J] Output \$ gec 4.C \$. 10.out Governmen & F78+E F-7 F & E E7 (E) E7 id

input string enten + 1d id aid input action stack SHIFT + 3d +id +id\$ \$ id REDUCE TO B + id # ids \$ 5 SHILL I & Sh upol id + id \$ B & + SHIFT - 71d +10\$ de tid BEDUCE TO E wid\$ \$6+50 REDUE TO TO o idd \$ 5 SMIFT & symbol t bi \$ F 0 SHIFT Tid \$ diaid REDUCE TO E 1 \$ 5 8 5 REDUCE to E \$ \$ 5

```
4.c:10:2: warning: 'gets' is deprecated (declared at /usr/include/stdio.h:638) [-Wdeprecated-declaration
 gets(a);
/tmp/ccFxDnoW.o: In function `main':
4.c:(.text+0x1e): warning: the `gets' function is dangerous and should not be used.
student@student-virtual-machine:~$ ./a.out
GRAMMAR is E->E+E
E->E*E
E->(E)
E->id
enter input string
id+id*id
stack
         input
                 action
Sid
          +id*id$
                        SHIFT->id
$E
          +id*id$
                        REDUCE TO E
                        SHIFT->symbols
$E+
           id*id$
$E+id
             *id$
                        SHIFT->id
$E+E
             *id$
                        REDUCE TO E
                        REDUCE TO E
$E
             *id$
$E*
              id$
                        SHIFT->symbols
$E*id
                $
                        SHIFT->id
                        REDUCE TO E
$E*E
                5
$E
                        REDUCE TO E
student@student-virtual-machine:~$
```

student@student-virtual-machine:~\$ gcc 4.c

4.c: In function 'main':