Nested Loops - while and for, Jumps in Loops

```
Program: Sireple chewboard
 # include estdion>
 int main()
 3
    int T, ol, i=0, 11, 12, 0;
    chan c;
    Sau (" olod", & T);
    weile (iz T)
       san(" 1/0d", 2d);
       11=0;
       White (ile d)
         0=1;
         12=0;
         if (111.2==0)
          0=0;
         while (12<d)
          C= 181.
          16 (12-1.2==0)
           C= 1w1;
          reviet (" d. c ", c);
                                            Sample Output
                                             WBW
          12 44!
                                             BWB
                                             WRW
       11+= 1;
                               Sample Input WAWBW
       perints (" ("1);
                                             BWBWB
     3 i= i+1;
                                            WBWBW
                                             BWBWB
3
                                            WIWBW
```

C

C

C

C

C

C

C

C

C

C

C

C

5

```
Program: Peint Dus
                   own theis board
# include < stdio-10
 int main ()
  int Tidii, il, 12,0,2;
  Char c, s;
  Scanf (" god", &T);
  for (1=0) 1 < T; 1++)
    sanf ("old ofic", ld, ls);
    for (il=0; il<d; il++).
      z = (s == 'w) ? 0:1;
       0=(119.2==2)?0:1;
       for (12 = 0; 12< d; 12++)
          C= C121/02==0)? W1: 181;
          preintf(" oloc", c);
     recint(("\n");
  3
 ecetivem 0;
                   Sample Output
Sample Input
                     W
2
2w
                     BW
                     RWB
 20
                     WBW
                     RWB
```

U

2

C

C

C

C

6

6

6

C

C

C

C

C

C-

C

C

C

C

C

C

C

C

C

C

C

```
Pattern Perinting
Program:
Hinclude estations
int mainly.
  int v1, v, p3, c, in, i, il, i2, t, ti3;
  Sand (" 10d", &t);
  for (tie o; tict; titt)
    V=0;
    scauf (" %d", &n);
     paint(" Case # %d/n", 1/+1);
    for (i=0; icn; i++)'{
        C= 0;
       if (1>0) {1
           for (il=0; il<i; il++) printf("**");
       3
                                   Sample input
    for (ilzi; ilcn; il++)
    ? if (i > 0) c++;
                                   sample output
                                   case # on
       Print (" " do ", ++ v);
                                   10203610011012
                                   ** 4050 80g
   31
if (i = =0) }
                                   ** ** 607
                                   Case # 02
                                   10201040170180190201
        P7= V+(V + (V-1))+1
                                     4x 5060 7a40 15016
                                    *** $09012013
        in = p3;
                                     11001 *****
                                    Case #3
                                    102030405026027028029036
     in = in - ()
                                    $ 60703090 22023024025
                                    **** 100110120 19020021
     P3=in;
                                    *** ** 130140 17018
     for (12=1) 12=n; 12++) 1/ **** ** 15016
          printfc"d.d", p3++);
         if Ci21= N-1) print (11011);
     3 printf (" In ");
```

```
Program: Acoustions Number
Hinclude estdio h>
#include < math. h>
int main()
int n;
  scanf(" of d", en);
  int x=0; n2=n;
   While (121=0)
       X++;
    3 N21=10;
    int 80m = 0;
    int n3 = n, n4;
    while (13] = 0)
      14 = 13/10;
      form = som + pow (n4, x);
       131=10;
      if (n== sum)
      printf ("false");
     returno;
 Sample Input
 123
 Sample output
 false
```

6

<u>C</u>

6

C

6

W

6

6

6

Co

6

6

6

6

C

C

C

C,__

C_

C

```
Calibran
 Program: Receiver and add until get a
 Ff include
            estalio us
 int main ()
   int rn, n, nt=0, i=0;
   scanf (" rod", ln);
   dof
    nt = n; an = 0;
    while (n != 0)
      3n = m *10 + n 0/010;
       n1=10;
    U= 4+ 40);
    144;
  while (m) = n+ 11 "= = 1);
 point("dod", on);
geneturen 0
 Sampu Input
 32
 Socreph Dutput
 55
```

50000

5555555

C

```
Program: Luckey Number
# include
         estatio ha
int mains
3
  int no1; 1:0, nt, co = 0, e;
  Stanf (" old", le);
  While (ice)
    nt = n;
   while (nt 1 = 0)
     00 = 0;
     if (n+1/1 (0)=3 20 n+2/10)=4)
       6021;
       bereak;
     n+1=10;
   if (co==0)
     1+4;
   printf ("dod", -- n);
  eretuen 0;
3
Sample input
 sample output
```