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AP Computer Science A

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### Checkerboard Problem

1. Ask for a positive integer of how many checkerboards wanted, "C".
2. Prompt user "C" times for a positive integer, "N", that gives dimension of the square checkerboard
3. For each "N", Make a checkerboard. Go to a new line for each new checkerboard. Make checkerboards in order of "N"s given.

#### 1. Method: Make a checkerboard

1. Ask for a positive integer "N"
2. Method: Make a check piece
  - a. Type "# "
3. If N-1 doesn't equal 0, Make a check piece N-1 times and add "#"
  - a. Else type "# " and board is done
4. Go back on the line (2\*N)-1 spaces
5. If N is greater than 1 and if there are not N lines yet, Make a new line and go to it
  - a. Else N is 1 or N lines have been created, the board is complete.
6. Repeat steps 4 and 5

### Coin Problem

1. T = Number in first line // indicates number of values to provide coin numbers for
2. Repeat the following T times, in order of the lines given for dollar values to convert
  - a. Take value in current line and save it as C, a String variable
  - b. Take numerical value of C and save as V, a Double variable
  - c. Divide V by 0.25 and round down to the lower integer. Save the value as Q
  - d.  $V = V - 0.25Q$
  - e. Divide V by 0.1 and round down to the lower integer. Save the value as D
  - f.  $V = V - 0.1D$
  - g. Divide V by 0.05 and round down to the lower integer. Save the value as N
  - h.  $V = V - 0.05N$
  - i. Divide V by 0.01 and round down to the lower integer. Save the value as P
  - j.  $V = V - 0.01P$
  - k. In a new line, print C
  - l. In a new line, print ("Quarters="+Q)
  - m. In a new line, print ("Dimes="+D)
  - n. In a new line, print ("Nickels="+N)
  - o. In a new line, print ("Pennies="+P)

Cow Print

```
PS C:\Users\saket\JAVA\Labs> javac .\Lab1P6BakshiS.java
PS C:\Users\saket\JAVA\Labs> java Lab1P6BakshiS
```

```
*      (__)
      \  (oo)
      \-----\
      /|      |\
      //||---||\
      ~ ~      ~ ~
      Cow walking
```

```
      (__)
      (oo)
      /-----\
      / \      /
*  \  \--//
      ~ ~
      Cow running
```

```
      (__)
      (oo)
      /-----\
      / \      \
*  \  \-----\
      ~ ~
      Cow braking
```

```
      (__)
      (--)
      /-----\
      /|      ||
*  ||-----||
      ~ ~      ~ ~
      Cow after pulling
      an all nighter
```

```
PS C:\Users\saket\JAVA\Labs>
```

# AutoGradr

DASHBOARD >  
APCSA-2018-P6 > COW LAB

COW LAB

COW LAB

SAKET BAKSHI

Help / Docs

Password Change

Logout

```
15 *  \ \--//
16   ~ ~
17   Cow running
18
19
20   (__)
21   (oo)
22   /-----\
23  / \       \
24 *  \ \----\ \
25   ~ ~     ~ ~
26   Cow braking
27
28
29   (__)
30   (--)
31   /-----\
32  /|       ||
33 * ||-----||
34   ~ ~     ~ ~
35   Cow after pulling
36   an all nighter
37
```

Help

Java 8

Run Code

```
1 public class Main
2 {
3     public static void main(String[] args)
4     {
5         System.out.println("\n *      (__");
6         System.out.println("  \ \      (oo)");
7         System.out.println("  \ \-----\ \");
8         System.out.println("  /|       | \");
9         System.out.println("  /| |-----| \ \");
10        System.out.println("  ~ ~     ~ ~");
11        System.out.println("    Cow walking");
12        System.out.println("\n");
13        System.out.println("      (__");
14        System.out.println("      (oo)");
15        System.out.println("  /-----\ \");
16        System.out.println(" / \       /");
17        System.out.println(" *  \ \----\ \");
18        System.out.println("   ~ ~");
19        System.out.println("    Cow running");
20        System.out.println("\n");
21        System.out.println("      ( )");
```

✓ You passed 1 of 1 test case

✓ [Test Case](#)

✓ Passed

```

1 public class Lab1P6BakshiS
2 {
3     public static void main(String[] args)
4     {
5         System.out.println("\n *      (__)");
6         System.out.println("  \\\      (oo)");
7         System.out.println("  \\\-----\\\/");
8         System.out.println("   /|      ||");
9         System.out.println("  //||----||\\\\");
10        System.out.println("   ~ ~ ~ ~ ~");
11        System.out.println("      Cow walking");
12        System.out.println("\n");
13        System.out.println("      (__)");
14        System.out.println("      (oo)");
15        System.out.println("   /-----\\\/");
16        System.out.println("  /  \\\      /");
17        System.out.println(" *   \\\\--//");
18        System.out.println("      ~ ~");
19        System.out.println("      Cow running");
20        System.out.println("\n");
21        System.out.println("      (__)");
22        System.out.println("      (oo)");
23        System.out.println("   /-----\\\/");
24        System.out.println("  /  \\\      \\\");
25        System.out.println(" *   \\\\----\\\\");
26        System.out.println("      ~ ~");
27        System.out.println("      Cow braking");
28        System.out.println("");
29        System.out.println("");
30        System.out.println("      (__)");
31        System.out.println("      (--)");
32        System.out.println("   /-----\\\/");
33        System.out.println("  /|      ||");
34        System.out.println(" * ||----||");
35        System.out.println("      ~ ~");
36        System.out.println("      Cow after pulling ");
37        System.out.println("      an all nighter");
38     }
39 }

```