# **Homework – More on while, do… while loop**

Trace the following program:

| **Program** | **Memory** | **Output** |
| --- | --- | --- |
| int d = 10;  while (d > 5)  {  d = d - 2;  System.out.println (d);  } | d (int):  ~~10~~ ~~8~~ ~~6~~ 4 | 8  6  4 |
| int x = 15;  int y = 4;  do  {  System.out.println(x);  x = x - 4;  } while (x > y); | x (int):  ~~15~~ ~~11~~ ~~7~~ 4  y (int):  4 | 15  11  7 |
| int input, min;  System.out.print ("Enter a number: ");  input = sc.nextInt ();  min = input;  while (input != -1)  {  if (input < min)  {  min = input;  }  System.out.print ("Enter a number: ");  input = sc.nextInt ();  }  System.out.println (min);  Assume the user enters the following in order:  23  45  67  95  86  6  93  6  -1 | input (int):  ~~23~~ ~~45~~ ~~67~~ ~~95~~ ~~86~~ ~~6~~ ~~93~~ ~~6~~ -1  min (int):  ~~23~~ 6 | Enter a number:  Enter a number:  Enter a number:  Enter a number:  Enter a number:  Enter a number:  Enter a number:  Enter a number:  Enter a number:  6 |
| int x = 3;  int y = 15;  do  {  x = x + 3;  y = y - 1;  System.out.println (x);  } while (x != y); | x (int):  ~~3~~ ~~6~~ ~~9~~ 12  y (int):  ~~15~~ ~~14~~ ~~13~~ 12 | 6  9  12 |