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| **Name: KEY** | **Period:** |

**Determine the output for each program that follows.**

**Print the exact output in the blank cell next to the program.**

**If a program has no output, print *No Output*.**

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| public class Ex0501  {  public static void main (String args[])  {  int x = 100;  int y = 100;  if (x == y)  System.out.println("Hello");  }  } | Hello |
| public class Ex0502  {  public static void main (String args[])  {  int x = 100;  int y = 50;  if (x == y)  System.out.println("Hello");  }  } | *No Output* |
| public class Ex0503  {  public static void main (String args[])  {  int x = 100;  int y = 101;  if (x > y)  System.out.println("Hello");  else  System.out.println("Goodbye");  }  } | Goodbye |
| public class Ex0504  {  public static void main (String args[])  {  int x = 100;  int y = 101;  if (x < y)  System.out.println("Hello");  else  System.out.println("Goodbye");  }  } | Hello |
| public class Ex0505  {  public static void main (String args[])  {  for (int x = 0; x <= 8; x+=2)  System.out.println("x = " + x);  }  } | x = 0  x = 2  x = 4  x = 6  x = 8 |
| public class Ex0506  {  public static void main (String args[])  {  for (int x = -1; x < 8; x+=3)  System.out.println("x = " + x);  }  } | x = -1  x = 2  x = 5 |
| public class Ex0507  {  public static void main (String args[])  {  for (int x = 1; x < 100; x\*=3)  System.out.println("x = " + x);  }  } | x = 1  x = 3  x = 9  x = 27  x = 81 |
| public class Ex0508  {  public static void main (String args[])  {  for (int x = 200; x >= 25; x/=2)  System.out.println("x = " + x);  }  } | x = 200  x = 100  x = 50  x = 25 |
| public class Ex0509  {  public static void main (String args[])  {  for (double x = 0; x < 4; x+=0.5)  System.out.println("x = " + x);  }  } | x = 0  x = 0.5  x = 1  x = 1.5  x = 2  x = 2.5  x = 3  x = 3.5 |
| public class Ex0510  {  public static void main (String args[])  {  int x = 0;  int y = 0;  for (x = 1; x <= 25; x+=3)  y++;  System.out.println("y = " + y);  }  } | y = 9 |
| public class Ex0511  {  public static void main (String args[])  {  int x = 10;  int y = 0;  for (x = 3; x > 0; x--)  y++;  System.out.println("y = " + y);  }  } | y = 3 |

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| public class Ex0512  {  public static void main (String args[])  {  int x = 0;  int y = 0;  while (x < 3)  {  y++;  x = y;  }  System.out.println("y = " + y);  }  } | y = 3 |
| public class Ex0513  {  public static void main (String args[])  {  int x = 1;  int y = 1;  while (x < 15)  {  y = x + 2;  x = y + 3;  }  System.out.println("y = " + y);  }  } | y = 13 |
| public class Ex0514  {  public static void main (String args[])  {  int x = 0;  int y = 0;  while (x < 15)  {  y = x \* 2;  x++;  }  System.out.println("x = " + x);  System.out.println("y = " + y);  }  } | x = 15  y = 28 |
| public class Ex0515  {  public static void main (String args[])  {  int x = 2;  while (x < 10)  {  if (x % 2 == 0)  x+=3;  else  x+=2;  }  System.out.println("x = " + x);  }  } | x = 11 |
| public class Ex0516  {  public static void main (String args[])  {  int x = 2;  do  {  if (x % 2 == 0)  x+=3;  else  x+=2;  }  while (x < 10);  System.out.println("x = " + x);  }  } | x = 11 |
| public class Ex0517  {  public static void main (String args[])  {  int x = 5;  int y = 15;  do  {  x = y + 2;  y = x - 2;  }  while (x < y);  System.out.println("x = " + x);  }  } | x = 17 |
| public class Ex0518  {  public static void main (String args[])  {  int x = 10;  int y = 2;  do  {  if (x % 2 == 0)  x += 5;  else  y += 2;  }  while (y < x);  System.out.println("x = " + x);  System.out.println("y = " + y);  }  } | x = 15  y = 16 |
| public class Ex0519  {  public static void main (String args[])  {  int x = 3;  int y = 5;  int z = 9;  while (z > x + y)  {  x = y + z;  y = x + z;  z = x - y;  }  System.out.println("x = " + x);  System.out.println("y = " + y);  System.out.println("z = " + z);  }  } | x = 14  y = 23  z = -9 |
| public class Ex0520  {  public static void main (String args[])  {  int k = 0;  int x = 2;  int y = 3;  int z = 4;  for (k = 1; k <= 3; k++)  {  x = y + z;  y = x + z;  z = x - y;  }  System.out.println("x = " + x);  System.out.println("y = " + y);  System.out.println("z = " + z);  System.out.println("k = " + k);  }  } | x = 7  y = 11  z = -4  k = 4 |
| public class Ex0521  {  public static void main (String args[])  {  int x = 216;  int y = 120;  int z = 0;  do  {  z = x % y;  if (z == 0)  System.out.println("y = " + y);  else  {  x = y;  y = z;  }  }  while (z != 0);  }  } | y = 24 |