Prepa Tec: Campus Eugenio Garza Lagüera

Actividad 10: Métodos estáticos

Nombre\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Matrícula\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Sección 1. Revisa cada una de las siguientes clases. Sobre el recuadro en blanco, indica qué hace cada método auxiliar (no el main). Especifica cuáles son los parámetros de entrada y los valores de retorno.**

**Adicionalmente, realiza una prueba de escritorio en donde indiques qué se imprime al ejecutar el programa.**

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| **Código** |  |
| public class Problema1 {  public static void imprimir(int x) {  System.out.println("Primer valor : " + x);  x = 100;  System.out.println("Segundo valor: " + x);  }  public static void main(String[] args) {  int var = 7;  System.out.println("Primer valor: " + var);  imprimir(var);  System.out.println("Segundo valor " + var);  }  } |  |

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| public class Problema2 {  public static int operacion(int x) {  return 2 \* x;  }  public static void main(String[] args) {  int var = 7;  int result = 0;  operacion(var);  System.out.println("Resultado: " + result);  result = operacion(var);  System.out.println("Resultado " + result);  result = operacion(result);  System.out.println("Resultado " + result);  }  } |  |

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| public class Problema3 {  public static int diff(int n) {  if (n <= 21)  return 21 - n;  return 2 \* (n - 21);  }  public static void main(String[] args) {  int a = diff(10);  System.out.println(a);    a = diff(a);  System.out.println(a);  a = diff(++a + 15);  System.out.println(a);    a = 23;  System.out.println(diff(a));  }  } |  |

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| public class Problema4 {  public static void main(String[] args) {  boolean b1 = between(4, 10);  b1 = between(14, 0);  System.out.println(b1);  b1 = between(0, 17);  System.out.println(b1);    b1 = between(-10, 25);  System.out.println(b1);  int i = (int)(Math.ceil(9.9));  b1 = between(i, i);  System.out.println(b1);  b1 = between(560, (int) (129 / 13.0));  System.out.println(b1);  }  public static boolean between(int a, int b) {  return (10 <= a && a <= 20) || (10 <= b && b <= 20);  }  } |  |

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| public class Problema5 {  public static void main(String[] args) {  checkString("ee");  checkString("Wear access badge at all times");  checkString("Billy Butch'r");  checkString("Decentemente");  checkString("Treebeard");  }  public static void checkString(String str) {  int num = 0;  for (int i = 0; i < str.length(); i++) {  if (str.charAt(i) == 'e')  num++;  }  if (num == 0) {  System.out.println("Nothing");  return;  }  if (1 <= num && num < 4) {  System.out.println(num);  return;  }  System.out.println("Too many!");  }  } |  |