**Proyecto Integrador I**

**2021-1 Diseño de experimentos**

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**Diseño de casos**

**Setups Experiments**

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| **Nombre** | **Clase** | **Escenario** |
| setup1 | Experiment | int[] prueba10a1 **= {**2,9,15,30,24,1,5,-5,-7,-8**}** |

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| **Nombre** | **Clase** | **Escenario** |
| setup2 | Experiment | int[] prueba10a2 **= {**78,43,32,30,60,84,87,31,83,20,64,56,25,88,12,20,4,91,79,48,77,9,8,30,50,1,70,26,23,54,28,6,10,38,12,78,15,44,75,39,98,37,64,56,9,0,73,81,72,61,95,94,91,58,29,38,77,40,56,0,66,42,59,10,52,45,67,18,17,18,91,20,41,83,40,74,56,64,11,11,37,72,71,29,40,40,78,88,38,43,17,91,35,33,2,15,40,41,50,99,42**}** |

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| **Nombre** | **Clase** | **Escenario** |
| setup3 | Experiment | int[] prueba10a3 **=** arreglo de 1000 enteros aleatorios sin ningún orden aparente |

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| **Objetivo de la prueba:** El objetivo de esta prueba es verificar que el método de ordenamiento “InsertionSort”, esté ordenando correctamente los arreglos de enteros | | | | |
| **Clase** | **Método** | **Escenario** | **Valores de Entrada** | **Resultado** |
| Experiments | insertionSort | setup1() |  | prueba10a1 = {-8,-7,-5,1,2,5,9,15,24,30} |
| Experiments | InsertionSort | setup2() |  | Prueba10a2={0,0,1,2,4,6,8,9,9,10,10,11,11,12,12,15,15,17,17,18,18,20,20,20,23,25,26,28,29,29,30,30,31,32,33,35,37,37,38,38,38,39,40,40,40,40,40,41,41,42,42,43,43,44,45,48,50,50,52,54,56,56,56,56,58,59,60,61,64,64,64,66,67,70,71,72,72,73,74,75,77,77,78,78,78,79,81,83,83,84,87,88,88,91,91,91,91,94,95,98,99  } |
| Experiments | Insertion Sort | setup3() |  | El resultado de este  método es el correcto  ordenamiento ascendete de un  arreglo de enteros |

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| **Objetivo de la prueba:** El objetivo de esta prueba es verificar que el método de ordenamiento “MergeSort”, esté ordenando correctamente los arreglos de enteros | | | | |
| **Clase** | **Método** | **Escenario** | **Valores de Entrada** | **Resultado** |
| Experiments | MergeSort | setup1() |  | prueba10a1 = {-8,-7,-5,1,2,5,9,15,24,30} |
| Experiments | MergeSort | setup2() |  | Prueba10a2={0,0,1,2,4,6,8,9,9,10,10,11,11,12,12,15,15,17,17,18,18,20,20,20,23,25,26,28,29,29,30,30,31,32,33,35,37,37,38,38,38,39,40,40,40,40,40,41,41,42,42,43,43,44,45,48,50,50,52,54,56,56,56,56,58,59,60,61,64,64,64,66,67,70,71,72,72,73,74,75,77,77,78,78,78,79,81,83,83,84,87,88,88,91,91,91,91,94,95,98,99  } |
| Experiments | MargeSort | setup3() |  | El resultado de este  método es el correcto  ordenamiento ascendete de un  arreglo de enteros |