**Exercise 01**

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| **WHAT YOUR PROGRAM  SHALL DO** |
| * You need to test an **array of numbers** * The array should not empty. If empty, display on console:   This array is empty   * To be valid, each numbers of the array shall be composed of **exactly 2 digits** and must be **positive** * If valid, display on console:   Valid array   * If not valid, display on console:   Invalid array |

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| INPUT |  | EXPLANATION |
| [] | This array is empty. | Array is empty. |
| [22, 33, 4, 2] | Invalid array | One value has 1 digit only |
| [22, 33, 44, -22] | Invalid array | One value is negative |
| [21, 33, 44, 66] | Valid array | Here is correct format |

**Exercise 02**

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| **WHAT YOUR PROGRAM  SHALL DO** |
| * We have a text composed of several words * Convert the **first character** of each word to uppercase * Add all the word to a new array   + except the word that start by letter **“w”** * Console shall be display the new array that contains all those words. |

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| INPUT | CONSOLE |
| hello! welcome to web programing at pnc | [‘Hello!’, ‘To’, ‘Programing’, ‘At’, ‘Pnc’] |
| romdul is cute girl | [‘Romdul’, ‘Is’, ‘Cute’, ‘Girl’ |
| “” | [] |

**Exercise 03**

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| **WHAT YOUR PROGRAM  SHALL DO** |
| * We are an array of numbers * Remove float numbers from this array |

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| INPUT | CONSOLE |
| [2.2, 23.4, 3, 33, 10, 50, 90] | [3, 33, 10, 50, 90] |
| [2, 1, 2, 3.45, 78.3] | [2, 1, 2] |
| [2, 1, 3, 4] | [2, 1, 3, 4] |

**Exercise 04**

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| **WHAT YOUR PROGRAM  SHALL DO** |
| * We have 3 lists: * Array of students (string) * Array of countries (string) * Array of majors (string)   Return an **array of objects**   * + each object having a student, country, major as property |

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| INPUT | EXPLANATION |
| students  [“Romdul”, “RomChong”, “Kolap”]  countries  [“Canada”, “Cambodia”, “Thai”]  majors  [“SNA”, “WEB”, “Database”] | [  {student:”Romdul”, country:”Canada”, major:”SNA”},  {student:”RomChong”, country:”Cambodia”, major:”WEB”},  {student:”Kolap”, country:”Thai”, major:”Database”}  ] |