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| NAME | R1: Add pet to nursery |
| ABSTRACT | Add a pet with the input information and change the Status of the habitat to OCCUPIED\_HEALTHY, verify if there is space on the habitat to save the pet. |
| INPUTS | * Name of the pet * Age of the pet * Pet specie * The owner of the pet * The days that will stay on nursery * An int number to check that the pet is healthy (1) |
| OUTPUTS | Error message if there is no space on the matrix to save the pet  If all good: Message indicating that the pet has been added and the indicator of the habitat where it is located. |

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| NAME | R2: Hospitalize a pet |
| ABSTRACT | Trespass the pet with the input information from emergencies to nursery and change the Status of the habitat to OCCUPIED\_SICK, verify if there is space on the habitat to save the pet. |
| INPUTS | * Name of the pet * Age of the pet * Pet specie * The owner of the pet * The days that will stay on nursery * An int number to check that the pet is sick (2) |
| OUTPUTS | Error message if there is no space on the matrix to save the pet  If all good: Message indicating that the pet has been added and the indicator of the habitat where it is located. |

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| NAME | R3: Show the information of a pet |
| ABSTRACT | Search a pet by the input and then print all the pets with that name that are located on the habitats. |
| INPUTS | * Name of the pet |
| OUTPUTS | Error message if there are no pets that match with the name  If all good: Message with the habitat zone, the identificatory number of the habitat and the status of the pet |

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| NAME | R4: Print the map of the nursery |
| ABSTRACT | Print all the habitats state and identificatory with the format of: “First letter of pet type” + “number of the habitat” +” E if empty, S if sick, H if healthy”  For example: D1E  This means this is the first dog habitat and is empty |
| INPUTS | * No inputs |
| OUTPUTS | Print the map of the nursery |

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| NAME | R5: Habitat information |
| ABSTRACT | Search a habitat by its identificatory, then print all the information of the habitat and the information of the pet that is there. If there is no pet the program will only show the information of the habitat and a message saying that the habitat is empty |
| INPUTS | * Habitat identificatory number |
| OUTPUTS | Print a message depending on the results of the conditions. |

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| NAME | R6: Show statistics |
| ABSTRACT | Method that will show all the statistics of the nursery, this will contain the  - Percentage of occupation for each area in the nursery.  - Percentage of general occupation of the nursery.  - Percentage of healthy pets and percentage of hospitalized pets. |
| INPUTS | * No inputs |
| OUTPUTS | Print a message with all the statistics |