**Server rooms requirements**

Sebastian Escobar Marin – A00374994

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| --- | --- | --- | --- |
| Nombre o identificador | Show rooms information | | |
| Resumen | Show a list of the available rooms of each corridor, saying if the room is in window or not, the column and the rent cost. | | |
| Entradas | Nombre entrada | Tipo de dato | Condición de selección o repetición |
| N/A | N/A | N/A |
| Actividades generales necesarias para obtener los resultados | 1. Walk each corridor and each room searching and concatenating the information of available rooms in a message variable. 2. Print the message in the main. | | |
| Resultado o postcondición | The message was printed. | | |
| Salidas | Nombre salida | Tipo de dato | Condición de selección o repetición |
| message | String | N/A |

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| --- | --- | --- | --- |
| Nombre o identificador | Rent room | | |
| Resumen | Rent a room to an entity | | |
| Entradas | Nombre entrada | Tipo de dato | Condición de selección o repetición |
| roomChoose | String | N/A |
| renterType | int | N/A |
| ServersNum | int | N/A |
| companyName | String | The renter is a company |
| companyNit | String | The renter is a company |
| projectNum | String | The renter is an investigation project |
| serversNum | int | N/A |
| cacheMemory | double | Repeated the times that serversNum says |
| processorsNum | int | Repeated the times that serversNum says |
| processorBrand | ProcessorBrand | Repeated the times that serversNum says |
| ramMemory | int | Repeated the times that serversNum says |
| diskNum | int | Repeated the times that serversNum says |
| disksNum | double[] | Repeated the times that serversNum says |
| Actividades generales necesarias para obtener los resultados | 1. The parameters are readed. 2. According to the renter type the renter is added. 3. To the selected room is added the servers num. 4. The final rent cost is calculated. 5. Is printed the final cost. | | |
| Resultado o postcondición | The room is rented. | | |
| Salidas | Nombre salida | Tipo de dato | Condición de selección o repetición |
| finalRentCost | double | N/A |

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| --- | --- | --- | --- |
| Nombre o identificador | Cancel rent room | | |
| Resumen | Show a list of the available rooms of each corridor, saying if the room is in window or not, the column and the rent cost. | | |
| Entradas | Nombre entrada | Tipo de dato | Condición de selección o repetición |
| cancelType | int | N/A |
| roomNum | String | The selection in cancelType |
| nit | String | The selection in cancelType |
| confirm | int | N/A |
| Actividades generales necesarias para obtener los resultados | 1. Read the type of cancel, cancel a room or all the rooms of a company. 2. Read the parameter to read according to the cancelType selection. 3. Print the processing information of the rooms or rooms to cancel the rent. 4. Is asked to the user to confirm the cancel process. 5. The servers and the company are deleted form the room or rooms selected. | | |
| Resultado o postcondición | The room is available to rent. | | |
| Salidas | Nombre salida | Tipo de dato | Condición de selección o repetición |
| finalRentCost | double | N/A |

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| --- | --- | --- | --- |
| Nombre o identificador | Show On/Off rooms | | |
| Resumen | Show a list of the on and off . | | |
| Entradas | Nombre entrada | Tipo de dato | Condición de selección o repetición |
|  |  |  |
| Actividades generales necesarias para obtener los resultados | 1. Walk each corridor and all rooms concatenating the information in a message 2. The information is printed in the main | | |
| Resultado o postcondición | The information is printed. | | |
| Salidas | Nombre salida | Tipo de dato | Condición de selección o repetición |
| message | String | N/A |

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| --- | --- | --- | --- |
| Nombre o identificador | Simulate all rooms on | | |
| Resumen | Show a map with all the rooms on | | |
| Entradas | Nombre entrada | Tipo de dato | Condición de selección o repetición |
|  |  |  |
| Actividades generales necesarias para obtener los resultados | 1. Walk each corridor and changing the on state to true 2. The rooms map are printed | | |
| Resultado o postcondición | The map is printed. | | |
| Salidas | Nombre salida | Tipo de dato | Condición de selección o repetición |
| map | String | N/A |

|  |  |  |  |
| --- | --- | --- | --- |
| Nombre o identificador | Simulate rooms off | | |
| Resumen | Show a map with the rooms off according to the user selection | | |
| Entradas | Nombre entrada | Tipo de dato | Condición de selección o repetición |
| selection | String | N/A |
| Actividades generales necesarias para obtener los resultados | 1. According to the user selection are changed to false the state on of the corresponding rooms 2. The rooms map is printed | | |
| Resultado o postcondición | The map with the changes is printed. | | |
| Salidas | Nombre salida | Tipo de dato | Condición de selección o repetición |
| map | String | N/A |