**TAD Stack**

|  |
| --- |
| Stack  Where the element is the last element added and is the first to leave  **Graphic representation** |
|  |
| **Primitive operations**   |  |  |  | | --- | --- | --- | | **Name** | **Input** | **Outup** | | Stack | … | Stack | | push | Stack x element | Stack | | isEmpty | Stack | Boolean | | top | Stack | element | | pop | Stack | element | | size | Stack | Integer | |

|  |
| --- |
| **Stack( ): Modifier** |
| “Create a new empty stack” |
|  |

|  |
| --- |
| **Push(T newItem) : Modifier** |
| “Allows you to add an element to a created stack, this element is added to the top” |
|  |

|  |
| --- |
| **IsEmpty( ) : Validation** |
| "Allows to check if the stack has elements or not". |
|  |

|  |
| --- |
| **Top( ): Validation** |
| “Returns the value of the element at the top position without deleting it” |
|  |

|  |
| --- |
| **Pop( ) : Modifier** |
| "Returns the value of the element at the top position and then deletes it." |
|  |

|  |
| --- |
| **Size( ) : Validation** |
| "Returns the number of elements in the stack" |
|  |