|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Label | Type | Size | Address | Value |
| num\_counts | int | 4 | 400-403 | 26 |
| qty\_most\_freq | int | 4 | 404-407 | Element of counts with highest value after the program is executed |
| most\_freq | char | 1 | 408 | Value of the index of counts with the highest value +97 after the program is executed |
| str | char[] | 80 | 409-488 | Depends on user input |
| counts | int[] | 104 | 489-592 | All elements are 0 until user input |
| i | int | 4 | 593-597 | Length of the string |

Jakob Allen

CS252

Lab04

Array syntax is accessing elements in an array at a certain index denoted as counts[27]. Pointer syntax can point at an address of any index of an array and can be used to traverse the contents by manipulating the value of the address denoted as (ptr+5), this will add five times the size of the type it is pointing to.