**createstringlisthash**

*Function of creating hash table for list of strings.*

**Syntax:**

*h\_id* **= createstringlisthash**(*s\_id*, *mem*)*;*

**Arguments:**

*s\_id –* identifier of list of strings,

*mem –* size of assigned memory space.

**Description:**

*сreatestringlisthash(s\_id, mem)* – function of creating hash table for list of strings with identifier *s\_id* and obtaining its identifier.

Hash tables are intended for ensuring acceleration of search for identifier in the list of strings.

Hash table helps store pairs (index in a list, string) and helps effect operations of adding new pair, operation of quick search and operation of deleting pair according to string identifier (string).

Hash table can be deleted by means of *freeobject*. *mem* – size of assigned memory space.

**Result:**

*h\_id –* identifier of created hash table.

**Example:**

|  |  |
| --- | --- |
|  | **var**  s\_01:**string** = "string1" + chr(10) + "string2",  s\_02:**string** = "string1";  //creating a list of strings  slist = **createstringlist**;  //load string s\_01 into list  **settextstringlist**(slist, s\_01);  // load string s\_02 into list  i = **addstringlist**(slist, s\_02, 0);  //create hash table  hasht = **createstringlisthash**(slist, 4095);  //obtain string indices  indexes = **getindexesfromhash**(hasht, "string1");  //delete list  **freeobject(**slist**);**  //delete hash table  **freeobject(**hasht**);** |

In the course of performing example a list of strings with identifier *slist* will be createdwith the use of function *createstringlist*. A string declared with white-space character “string advance” will be loaded into a list of strings *slist* by means of function *settextstringlist*, as a result, variable *slist* will comprise an identifier of list of strings.

“” *string1*”

“*string2*””.

Further, string “*string1*” will be loaded into a list of strings with identifier *slist* by means of function *addstringlist*.

As a result, variable *slist* will comprise identifier of a list of strings.

“”string1”

“string2”

“string1””

, variable *i* will be assigned value 2.

Hash table with identifier *hasht* will be created by means of *createstringlisthash* function for a list of strings with identifier *slist*.

Array of indices of string “string1” will be obtained in the list of strings *slist* by means of *getindexesfromhash* function; variable *indexes* will be assigned a value of array [0, 2].

Prior to completing an example the list of strings and hash table shall be deleted by means of *freeobject* function.