JavaScript String Functions Demonstration

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(1) var str="New Hampshire Dept. of Corrections Special School District";
Original string: New Hampshire Dept. of Corrections Special School District
(2) var length1 = str.length ;
The original string contains 58 characters.
     Note that the string length (character count) includes spaces. Also note that length is a
     property, not a function. This is why length is not followed by parentheses.
(3) var space1 = str.indexOf( " " );
The first space is at character position: 3
     Note that the character position is 0-based!
(4) var word1 = str.substr( 0, space1 );
The first word is: New
     The substr parameters are the starting position and the number of characters.
(5) var space2 = str.indexOf( " ", space1+1 );
The second space is at character position: 13
      The second parameter tells JavaScript where to start the character search.
(6) var word2 = str.substr( space1+1, space2-space1 );
The second word — extracted using the substr function — is: Hampshire
     Remember that the second parameter to the substr function is the number of characters, not the
     ending space. This is why we have to subtract space1 from space2.
(7) var word2b = str.substring( space1+1, space2 );
The second word — extracted using the substring function — is: Hampshire
      The second parameter to the substring function is indeed the ending space. This is why we do
     not subtract space1 from space2.
(8) var phrase1 = word2 + " " + word1 ;
Concatenating word1 onto word2 yields: Hampshire New
     Remember that the second parameter is the number of characters, not the ending space. This is
     why we have to subtract space1 from space2.
(9) var arrWords = str.split( " " );
We can get all the words at once using the split function:
   0. New
   1. Hampshire
   2. Dept.
   3. of
   4. Corrections
   5. Special
   6. School
   7. District
     Note that array indexes are 0-based!
(10) document.writeln( arrWords[5] + " " + arrWords[7] + " " + arrWords[3] + " " +
    arrWords[1] + " " + arrWords[0] + " " + arrWords[6] + " " + arrWords[4] );
We can then print them any way we want!
    Special District of Hampshire New School Corrections
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(11) var phrase2 = str.replaceAll( " ", "|" );
Replacing all spaces with vertical bars yields:
New|Hampshire|Dept.|of|Corrections|Special|School|District
     The first parameter is the search string and the second is the replacement string.
(12) var bStartsWithNew = str.startsWith( "New" );
Testing whether the string starts with New yields: true
(13) var bEndsWithNew = str.startsWith( "Hampshire" );
Testing whether the string ends with Hampshire yields: false
(14) var strUpper = str.toUpperCase();
Converting the string to all uppercase yields: NEW HAMPSHIRE DEPT. OF CORRECTIONS
SPECIAL SCHOOL DISTRICT
(15) var strLower = str.toLowerCase();
Converting the string to all lowercase yields: new hampshire dept. of corrections special school district
(16) var bIncludesSchool1 = str.includes( "School" );
Testing whether the string includes (contains) School yields: true
     Note that the includes function is case-sensitive. This is verified by the next example.
(17) var bIncludesSchool2 = str.includes( "school" );
Testing whether the string includes school yields: false
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