Question:

Find out the input string that was passed to the following hash function

```
Integer Hash (String inputString)
{
    Integer outputNumber = 7;
    String letters = "acdegilmnoprstuw";
    Integer index = 0;
    Integer lengthOfInputString = inputString.Length;
    while (index < lengthOfInputString)
    {
        outputNumber = (outputNumber * 37 + letters.IndexOf (inputString [index]));
        index = index + 1;
    }
    return outputNumber;
}</pre>
```

That produced the hashed output (integer value) as

945901726134069

Provided, the input string length was 9 and contains only characters from the below string

"acdegilmnoprstuw"

Note: You need to reverse engineer the above hash logic and find out the answer.

HELP:

String – a data type that holds collection of characters, an array of characters with zero-based index. Hash – Modify an input value to a different one using which one cannot easily find out the original value. Dehash – Find the original input value that was modified by hashing. Function – a code snippet that accepts zero or more number of input parameters and return either no value or a value. Integer – a data type that holds both positive and negative full numbers. <string_variable>.IndexOf – an in-built function in any programming language that finds out the starting index of any substring (one or more characters together) inside the value stored in string_variable. <string_variable>[<integer_variable>] – an expression that returns the character at the index specified by the value of integer_variable