

- 1.) In order to get the most unique hash values possible, which can then be modded to fit the capacity of the array, a good method would be to simply multiply the year, month, and day together to get a hash value.
- 2.) A good hash function would be to take the ASCII values of the 2nd and 3rd characters, add them, then multiply by the 4th - 6th values. Then, add the value of the 11th - 16th digits. This gives a good hash value as it is dependent on the value of the county, is randomized by the random digits, then changed slightly depending on whether or not the VIN shares the same first 10 characters with another VIN.