**Validating NRIC**

Regarding the NRIC math behind the letter, it’s called a checksum. This is to help check whether the actual IC numbers are valid and not just random numbers.

The math goes like this:

1) Take for example I want to test the NRIC number S1234567.

The first digit you multiply by 2, second multiply by 7, third by 6, fourth by 5, fifth by 4, sixth by 3, seventh by 2.

Then you add the totals together. So,1×2+2×7+3×6+4×5+5×4+6×3+7×2=106.

2) If the first letter of the NRIC starts with T or G, add 4 to the total.

3) Then you divide the number by 11 and get the remainder. 106/11=9r7

4) You can get the alphabet depending on the IC type (the first letter in the IC) using the code below:  
If the IC starts with S or T: 0=J, 1=Z, 2=I, 3=H, 4=G, 5=F, 6=E, 7=D, 8=C, 9=B, 10=A  
If the IC starts with F or G: 0=X, 1=W, 2=U, 3=T, 4=R, 5=Q, 6=P, 7=N, 8=M, 9=L, 10=K