1) The students method interoduces a significant bias into the set of generated numbers. A fundamental assumption of the chi-squared test for goodness of fit is that the observations are statistically independent. By including both 0.ab and 0.ba every time a number is generated, the students method violates this assumption because the presence of one number directly implies the possence of another. This linkage between numbers reduces their statistical independence.

The chi-equared text is used to determine if
the generated number are uniformly distributed serve
the ten classes. By artificially doubling the number
the ten classes by artificially doubling to humber
the the manner proposed, the distribution of numbers

acrose these intervals may no longer be uniform.
To illustrate this with a simple and small example,

03 | 13 | 23 | 33 | 43 | 53 | 63 | 73 | 83 | 93 The above set of number would pass the hiteh because they are distributed uniformly across the ten But if we include the sovered numbers 03 | 13 | 23 | 33,31,32, | 43 | 53 | 63 | 73 | 83 | 93

The above distribution is clearly not uniform.

This can act as a simple base case proof

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