

The fugue is given in full on the two following pages. Both the measures and entries are numbered and the type and starting note of each entry is indicated so that the reader can follow the plan of the composition. As several recordings of this music are available, it should be easy to experience this time span utilization audibly.

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**REMARKS ON A SECOND ORDER
RECURRING SEQUENCE**

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Among the second order recurring sequences, the degenerate sequence $U_n = n^2 - n - 1$ is of some interest. In fact, we can observe the following special property among the more unusual properties such sequences have:

$$U_n U_{n+1} = U_{n^2-1} .$$

Proof:

$$\begin{aligned} U_n U_{n+1} &= [n^2 - n - 1] [(n+1)^2 - (n+1) - 1] \\ &= (n^2 - n - 1)(n^2 + n - 1) \\ &= (n^2 - 1)^2 - n^2 \\ &= (n^2 - 1)^2 - (n^2 - 1) - 1 \\ &= U_{n^2-1} . \end{aligned}$$

In what way this property can be generalized remains to be seen.

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