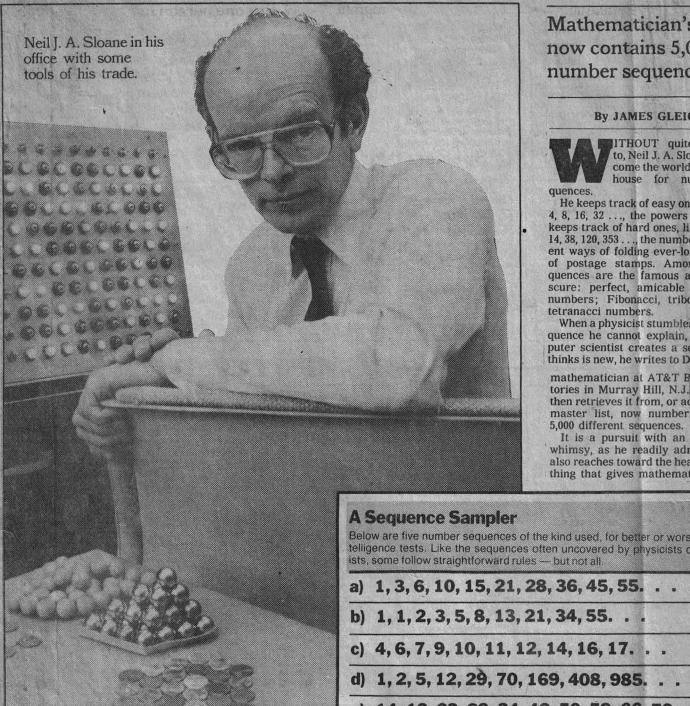
In a 'Random World,' He Collects Par



Mathematician's list now contains 5.000 number sequences.

By JAMES GLEICK

ITHOUT quite meaning to, Neil J. A. Sloane has become the world's clearinghouse for number se-

He keeps track of easy ones, like 1, 2, 4, 8, 16, 32 ..., the powers of two. He keeps track of hard ones, like 1, 1, 2, 5, 14, 38, 120, 353 . . ., the number of different ways of folding ever-longer strips of postage stamps. Among his sequences are the famous and the obscure: perfect, amicable and lucky numbers; Fibonacci, tribonacci and

When a physicist stumbles upon a sequence he cannot explain, or a computer scientist creates a sequence he thinks is new, he writes to Dr. Sloane, a

mathematician at AT&T Bell Laboratories in Murray Hill, N.J. Dr. Sloane then retrieves it from, or adds it to, his master list, now numbering around

It is a pursuit with an element of whimsy, as he readily admits. But it also reaches toward the heart of something that gives mathematics its uni-

Below are five number sequences of the kind used, for better or worse, on intelligence tests. Like the sequences often uncovered by physicists or chem-

e) 14, 18, 23, 28, 34, 42, 50, 59, 66, 72. .

a) 66 — triangular numbers: 1+2+3+4+5+....b) 89 — Fibonacci numbers: each is the sum of the two previous. c) 18 — all the numbers that do not occur in the sequence above. d) 2378 — Pell numbers: double the last term and add the second-to-last. e) 79 — West Side IRT local stops.

York Times/William E. Sauro

STAGE: Charles Keating: Common Man for all seasons, page C13./ THEATE

BOOKS: 'Russian Studies,' by Leonard Schapiro, page C17./ TV: 'The R