Unique Remainders (Hard)

Unique Remainders

Hard ★★★★★★

Find the smallest nonnegative integer X such that when X is divided by each positive integer less than or equal to N, the remainders are all unique.

i.e. when N = 3, X = 5 because the remainder when X is divided by 3 is 2, by 2 is 1, and by 1 is 0.

The output file should be a line-separated list of all numbers requested.

Find X when N is 150,000.

Contestant Name

Submission

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