

Number Theory Quiz V

RDB

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Problem 1 How many integers in $\{1, 2, 3, 4, \dots, 10^5\}$ are relatively prime to 10^5 ?

Problem 2 Write out the table for the correspondence $x \mapsto (x \bmod a, x \bmod b)$ for $1 \leq x \leq ab$ using $a = 3$ and $b = 5$.