

Integers and Division

CS 202

Epp section ??

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Why prime numbers?

- Prime numbers are not well understood
- Basis for today's cryptography
- Unless otherwise indicated, we are only talking about positive integers for this chapter

The divides operator

- New notation: $3 \mid 12$
 - To specify when an integer evenly divides another integer
 - Read as “3 divides 12”
- The not-divides operator: $5 \nmid 12$
 - To specify when an integer does *not* evenly divide another integer
 - Read as “5 does not divide 12”