## Дискретные структуры.

## Содержание

1 Введение 1

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$$x = \lfloor x \rfloor + \{x\}$$

$$x = \lceil x \rceil - 1 + \{x\} \qquad (x \notin \mathbb{Z})$$

$$\lfloor x \rfloor + \lfloor y \rfloor + \lfloor x + y \rfloor \leqslant \lfloor 2x \rfloor + \lfloor 2y \rfloor \qquad (\forall x, y \in \mathbb{R})$$

$$\lceil \log_2(2k - 1) \rceil = \lceil \log_2 k \rceil + 1 \qquad (\forall k \in \mathbb{N})$$

$$\{x + y\} \leqslant \{x\} + \{y\} \qquad (\forall x, y \in \mathbb{R})$$

Gregorian day of week (Zeller's formula):

$$dow' = \left(mday + \left\lceil \frac{13(month' + 1)}{5} \right\rceil + cyr' + \left\lceil \frac{cyr'}{4} \right\rceil + \left\lceil \frac{cent'}{4} \right\rceil - 2\dot{c}ent' \right) \bmod 7$$

$$dow' - \text{day of week: } 0 = \text{Saturday, } 1 = \text{Sunday, } 2 = \text{Monday, } ..., 6 = \text{Friday}$$

$$mday - \text{day of month}$$

$$month' - \text{adjusted month: } 3 = \text{March, } ..., 12 = \text{December, } 13 = \text{January, } 14 = \text{February})$$

$$year' - \text{adjusted year: next year for January/February, current year otherwise}$$

$$cyr' - (year' \bmod 100)$$

$$cent' - \left\lceil \frac{year'}{100} \right\rceil$$

