

(Expected ...) $\Delta H_{31} \equiv$ מהירות

כמה: מהירות המסלול בהיקף קבוע

סידור $\frac{1}{6}$ כקצת כ"א מהמסלול

$$E = \sum_{i=1}^6 r_i \cdot \text{סידור}$$

$$\frac{1}{6} \cdot 1 + \frac{1}{6} \cdot 2 + \dots + \frac{1}{6} \cdot 6 = \frac{1}{6} (1 + \dots + 6) = \frac{6 \cdot 7}{2} \cdot \frac{1}{6} = 3.5$$

1 קב, רחב 200 . רחב 1200 קצה קצה

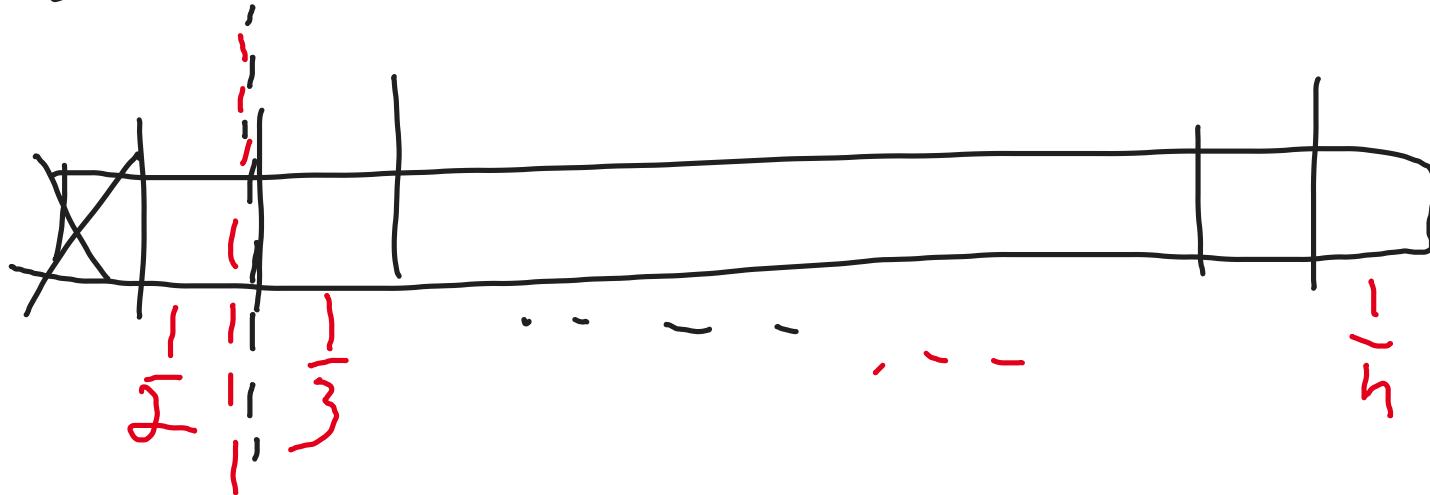
6 - 200 . . . 3 - 200 . 2 רחב 200

? קצה קצה ~~6~~ רחב > 1

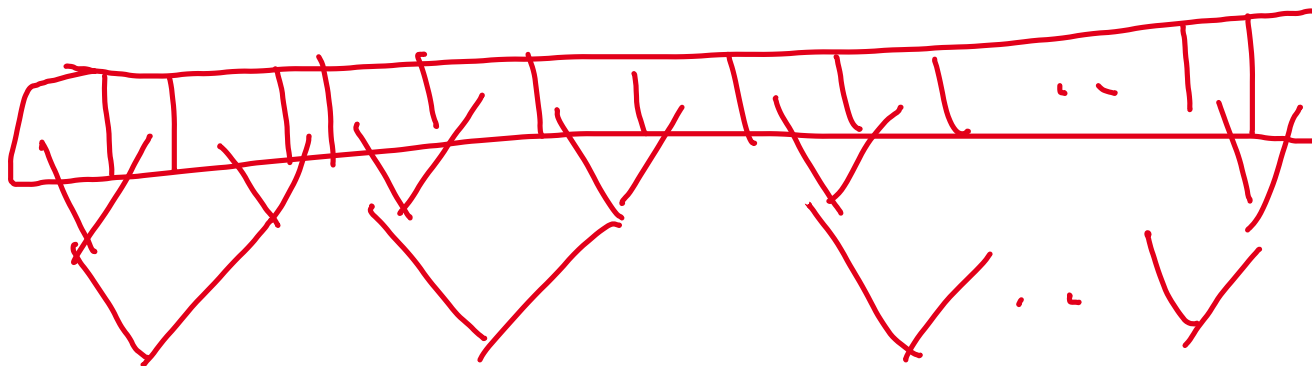
$$\frac{1+1+\dots+1+2+2+\dots+2+\dots+6+6+\dots+6}{1200} = \frac{200 \cdot 1 + 200 \cdot 2 + \dots + 200 \cdot 6}{1200}$$

$$= \frac{200(1+2+\dots+6)}{1200} = \frac{1}{6}(1+2+\dots+6) = \frac{1}{6} \cdot 1 + \frac{1}{6} \cdot 2 + \dots + \frac{1}{6} \cdot 6 = \sum \text{רחב} \cdot \text{קצה}$$

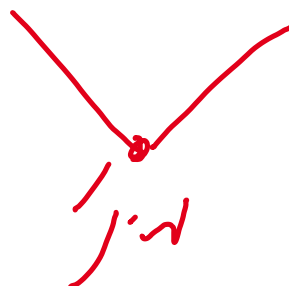
$$E = \sum \sqrt{f_i} \cdot \Delta x_i = \sum 1 \cdot \Delta x_i$$



$$\sum \Delta x_i = \frac{1}{2} + \frac{1}{3} + \dots + \frac{1}{n} = \Theta(\ln n)$$



(
|
(



h-1
Allen

כחל בן גורא ו $a_1 > a_2$ אורח שיהיה בדיוק

$$\cdot ({}^{\circ} \gamma_n) \quad \{ \gamma_n \supset a_1$$

$(a_2 > a_1 : \text{ע } \gamma \text{ ו} \gamma \text{ ו} \gamma) \quad a_2 \leq a_1 + 1 \quad \gamma \gamma \gamma \quad \gamma \gamma \gamma$

יחידה שלם המאג' דה'ר' שכל מראי' אל' ד'ס אל' אל'

אם a_1 איז א נומער, דאס איז א פארשטאנדענע זאך.

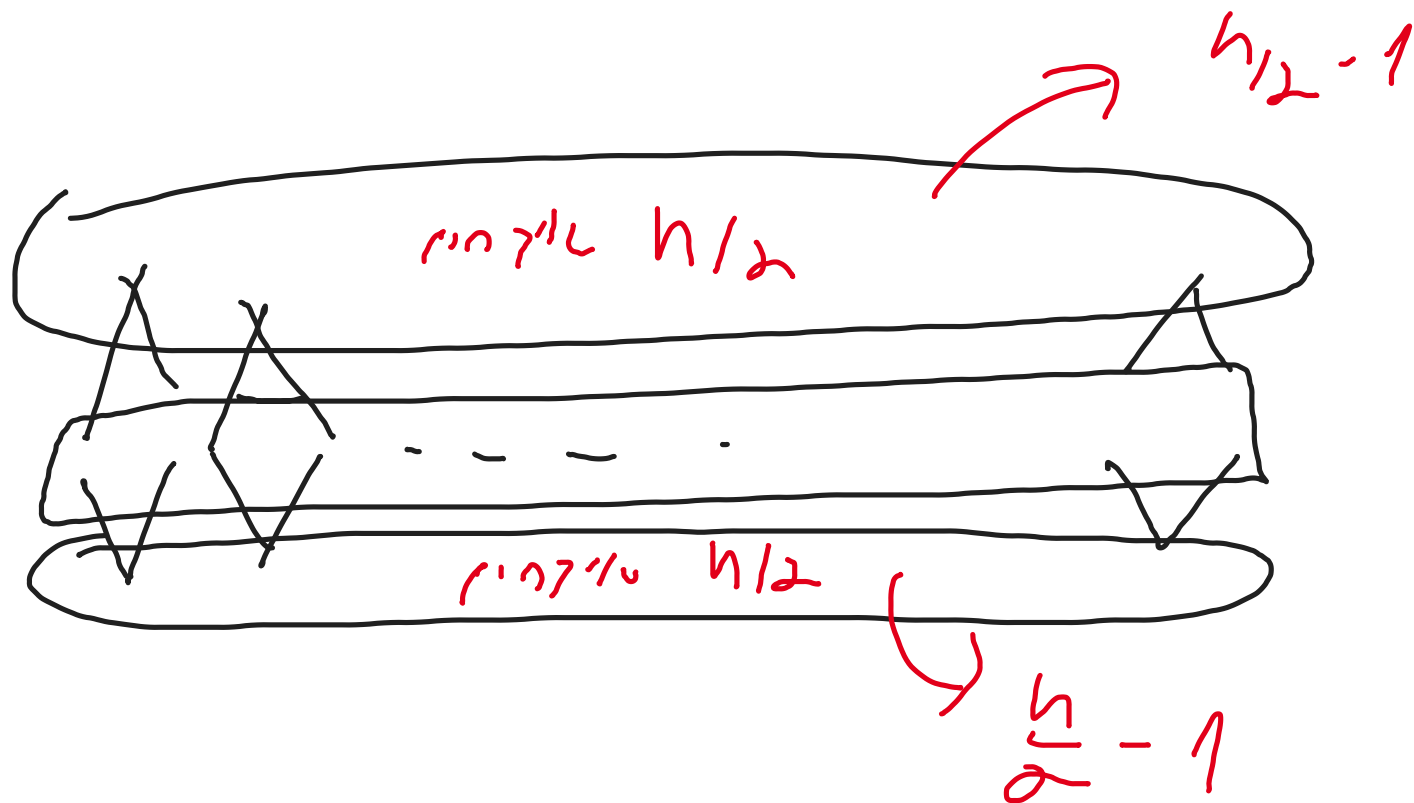
סמירה כנגדה.



$$\sim \frac{3n}{2}$$

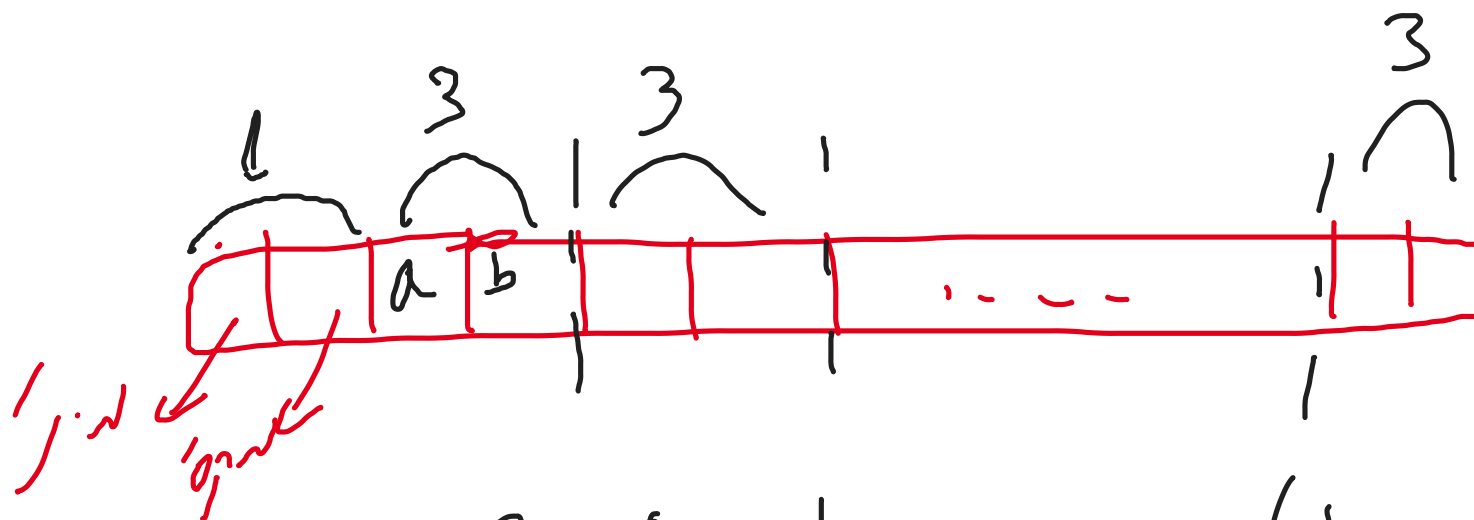
מ/צדדים ארוכים

מ/צדדים קצרים



$$\frac{3h}{2} - 2$$

סה"כ



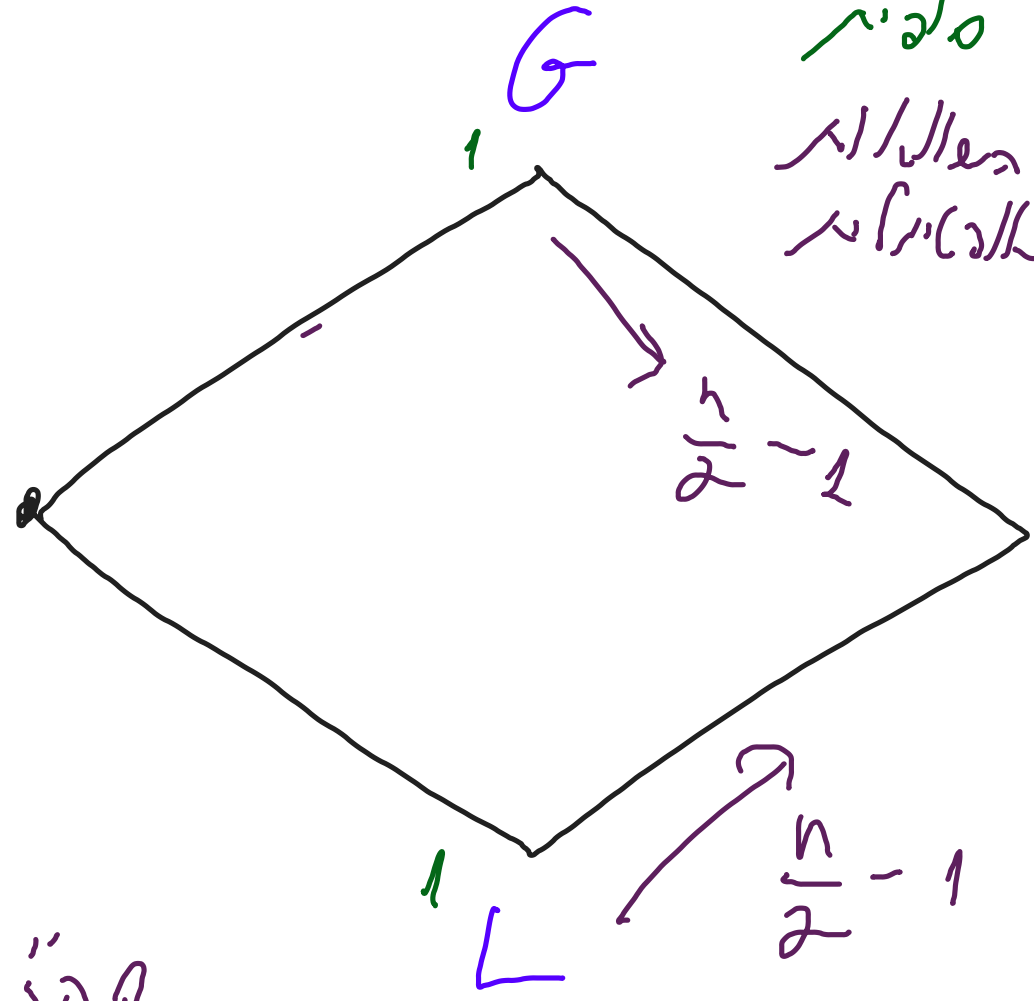
? $a < b$

הנחה הנחה הנחה
הנחה הנחה הנחה

$$\left(\frac{n}{2} - 1\right) \cdot 3 + 1$$

$$= \frac{3n}{2} - 2$$

סדרה - מרחב גאומטרי
 יחידה - " סלבי
 סדרה - כגון המיליון
 דמיון לזוג האחר

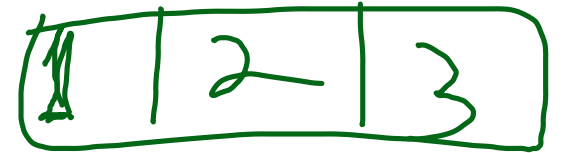
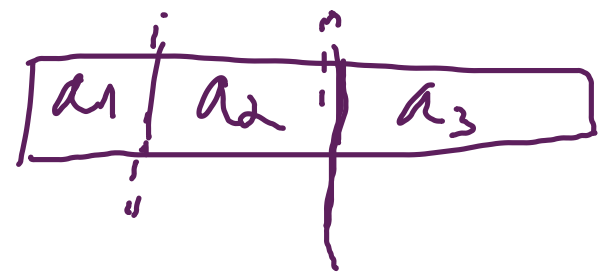
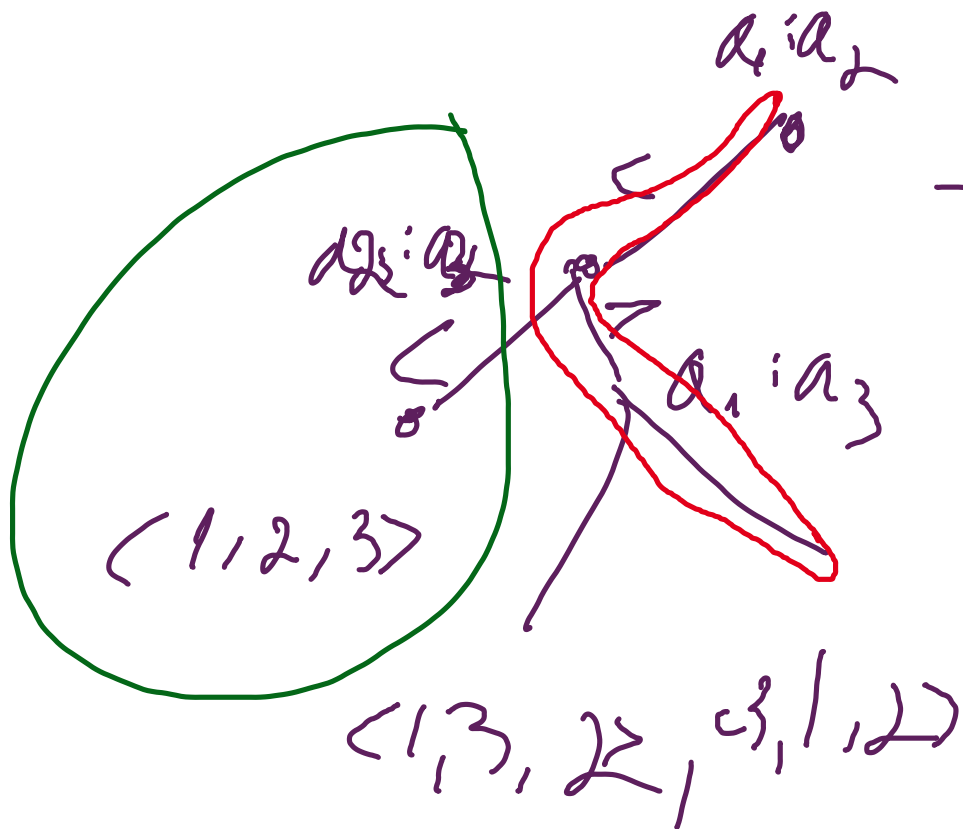


$G \cup L$
 $n-2$

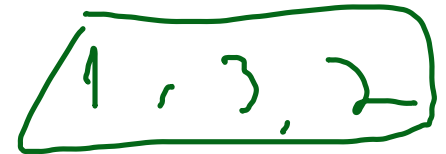
DW
 h סלבי
 $\frac{n}{2}$ המיליון

$\frac{3h}{2} - 2$

סדרה



$\langle 1, 2, 3 \rangle$



$\langle 1, 3, 2 \rangle$

כמה פתרונות יש, עבור סדרה של n מספרים?

$n!$

רצ"ה שר המשטרה, תל אביב

ה'תקנ"ג ד'למח' אג'ק' כ'ט'אל' ח' ד'צ'ר'ג' א'מ'א'נ'ג'.

למה שם הדרגים הע"ה ע"ה?

כמה קטגוריות k שזיהוי שלהן n קוויטרל? $\binom{n}{k}$

לשטער אן ערד נאך א טאג'ס ריט נאך ערדלעך - א.א.

המשפט הראשון, נקרא k !



$\binom{n}{k}$ חזקת k של n
 מספר האלמנטים ב- k

$a_3, a_4, a_8, a_5 \dots a_1$

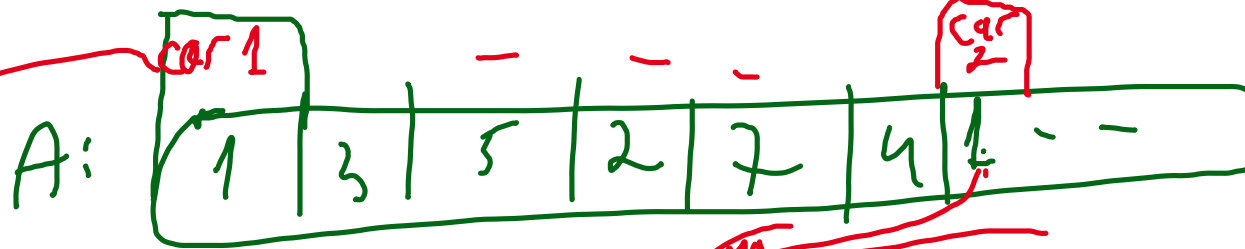
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$\binom{n}{k}$

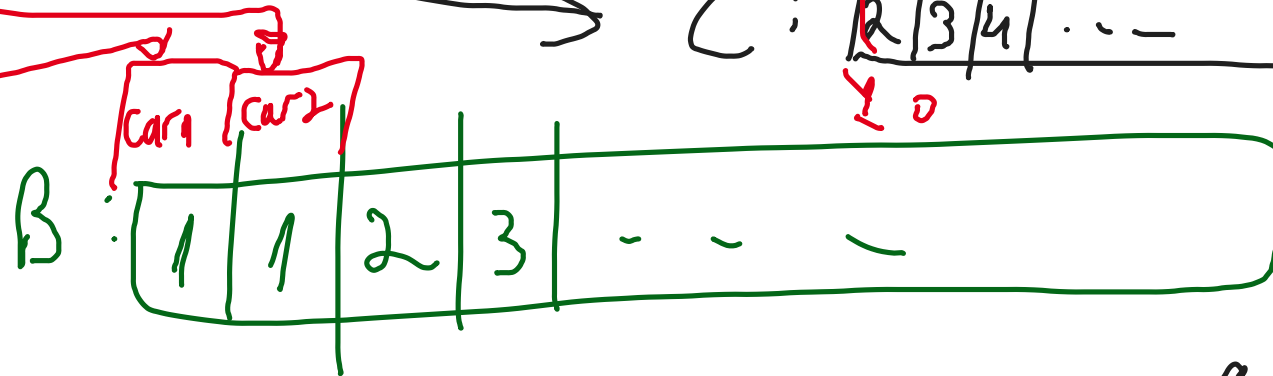
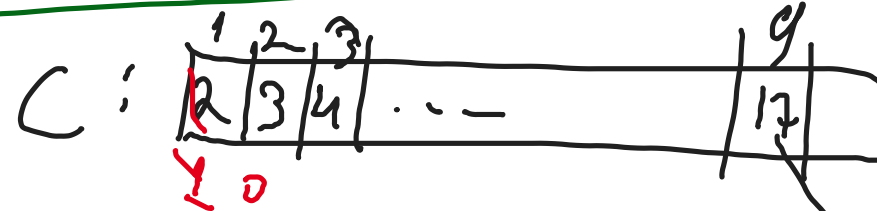
$a_2, a_5, a_1, \dots, a_8$

\therefore

$a_5, a_2, a_1, \dots, a_{18}$



1-10



$\cdot \pi(n)$ 17 19 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97, 101, 103, 107, 109, 113, 127, 131, 137, 139, 143, 149, 151, 157, 163, 167, 173, 179, 181, 187, 191, 193, 197, 199, 211, 223, 227, 229, 233, 239, 241, 247, 251, 257, 263, 269, 271, 277, 281, 283, 293, 307, 311, 313, 317, 331, 337, 347, 349, 353, 359, 367, 373, 379, 383, 389, 397, 401, 409, 419, 421, 431, 433, 439, 443, 449, 457, 461, 463, 467, 473, 479, 487, 491, 499, 503, 509, 521, 523, 527, 539, 541, 547, 557, 563, 569, 571, 577, 587, 593, 599, 601, 607, 613, 617, 619, 623, 629, 631, 637, 641, 643, 647, 653, 659, 661, 667, 671, 673, 677, 683, 687, 691, 697, 701, 703, 709, 713, 719, 727, 733, 739, 743, 749, 757, 761, 763, 767, 773, 779, 787, 791, 793, 797, 803, 809, 811, 817, 821, 823, 827, 829, 833, 839, 843, 847, 853, 857, 859, 863, 869, 871, 877, 881, 883, 887, 893, 897, 901, 907, 911, 913, 917, 919, 923, 929, 931, 937, 941, 943, 947, 953, 959, 961, 967, 971, 973, 977, 983, 989, 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8.2-4

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