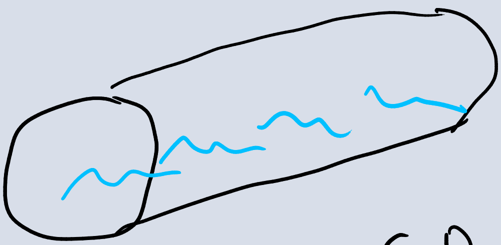
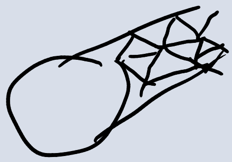
— мат. мод. (Неустр.)

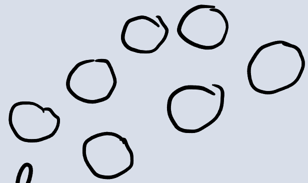
— метода

— погр. комп.

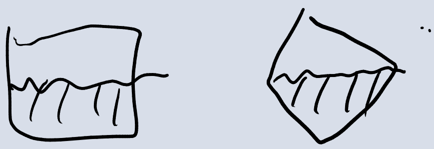




— SPH

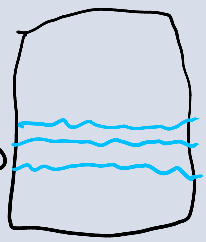


— "зашор" вода



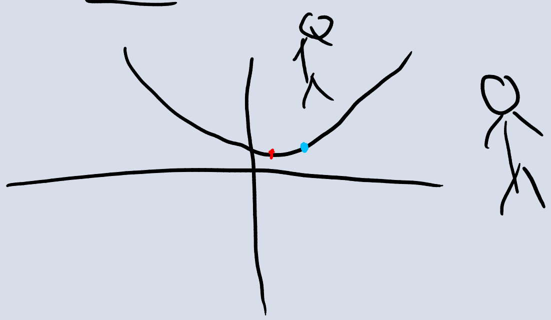
— V по L

— L по V



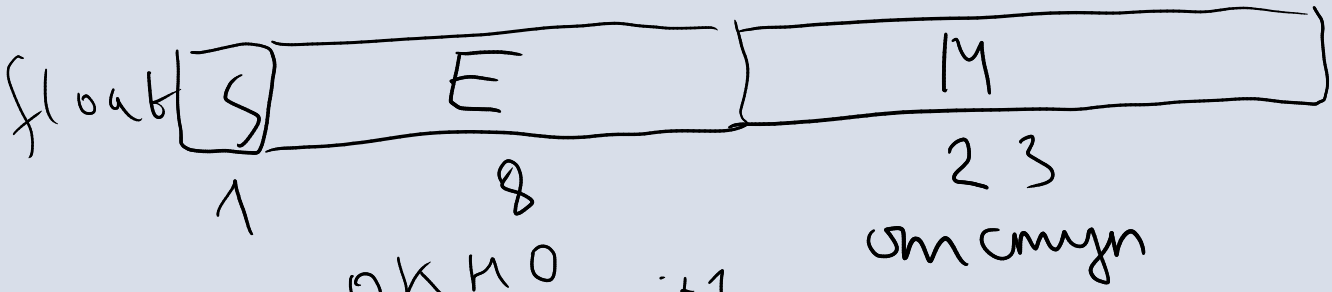
$$|V_3 - V| \leq \varepsilon_1$$

$$|L_i - L_{i-1}| \leq \varepsilon_2$$



$$e\ (-1)^S\ 2^{E-127}\left(1+\sum_{i=1}^{23} M_{23-i}2^{-i}\right)$$

знак знач. мантисса



$$x^2 - y^2 = (x-y)\cdot(x+y)$$

$$\delta_1 = \frac{(x \ominus y) - (x-y)}{x-y}$$

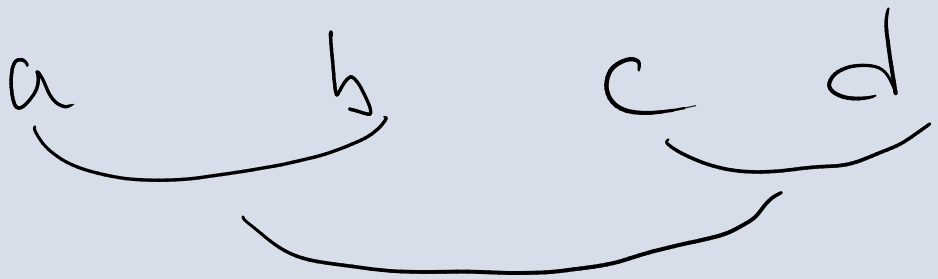
$$x \ominus y = (x-y)(1+\delta_1)$$

$$x \oplus y = (x+y)(1+\delta_2)$$

$$x \otimes y = xy(1+\delta_3)$$

x: 10 + 9 + 8 + 11 ...

```
for ( ... )
    sum += X[i]
```



компилятор

```
s = 0
c = 0
for i=1,n
  y = x[i] - c
  t = s + y
  c = (t - s) - y
  s = t
```

Кекэш

Алгоритм Велфорда

$$\overline{x}_n = \overline{x}_{n-1} + \frac{x_n - \overline{x}_{n-1}}{n},$$
$$M_n = M_{n-1} + (x_n - \overline{x}_{n-1})(x_n - \overline{x}_n),$$
$$\sigma_n^2 = \frac{M}{n}.$$

$$\vec{v} = \begin{bmatrix} v_1 \\ v_2 \end{bmatrix} \qquad |\vec{v}| = \sqrt{v_1^2 + v_2^2}$$

$$m = \max\{|v_1|, |v_2|\}$$

$$m\sqrt{\left(\frac{v_1}{m}\right)^2 + \left(\frac{v_2}{m}\right)^2}$$