mindist2() und Periodisch!

y_{max}

$\underline{C}$ X_{max}

$P(x,y)$

$(\underline{C}, \underline{b})$ — bound

max

min

Dimensionen
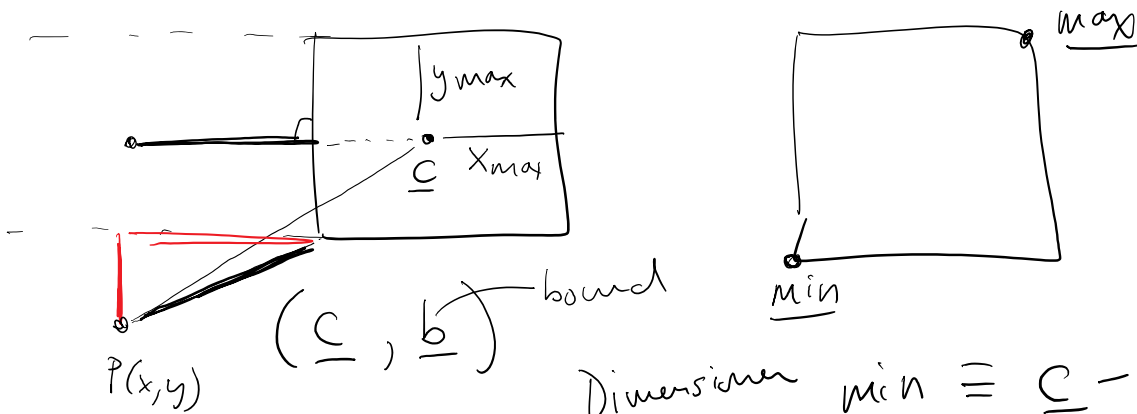
$\underline{min} \equiv \underline{C} - \underline{b}$

$\underline{max} \equiv \underline{C} + \underline{b}$

```
for ( j=0, d2=0; j<2; ++j) {
    t = fabs ( c[j] - p[j] ) - b[j];
    if ( t > 0 )  d2 += t*t;
}
return d2;
```
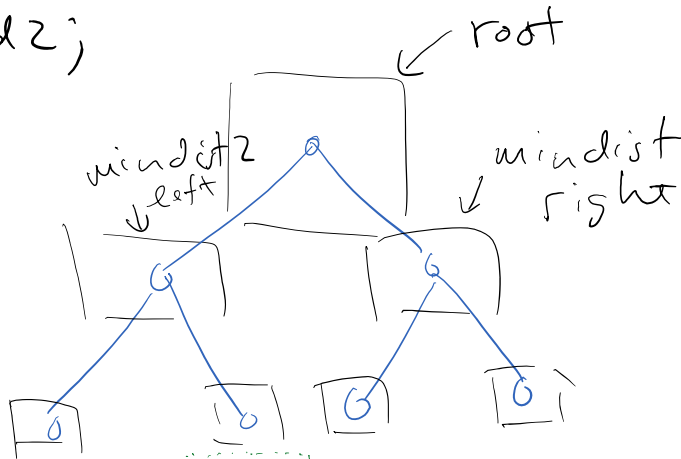
root

mindist2
left

mindist
right

$walk(root, \infty, ...$

mindist

nicht notwendig

C

C'

C'

A

B

P ↑

C

P

C − P = +ve ⟹ C − L

C − P = −ve ⟹ C + L

C'
P]

P

C
P]

$L \equiv 1$

$$\left\lfloor \frac{C'}{\cdot p_j} \right\rfloor \qquad \overset{\circ}{p} \qquad \left\lfloor \frac{C}{p_j} \right\rfloor \qquad L \equiv 1$$
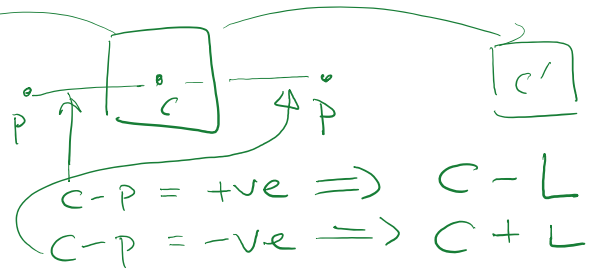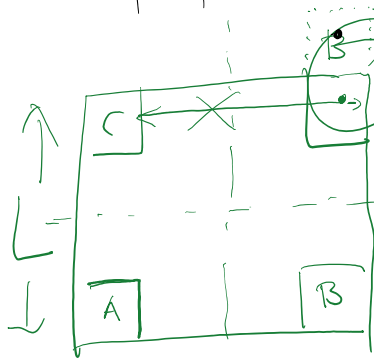
```
for (j=0, d2=0; j<2; ++j) {
    t = c[j] - p[j];
    if (t < 0) t₁ = t + L;
    else t₁ = t - L;
    t = fabs(t) - b[j];
    t1 = fabs(t1) - b[j];
    if (t1 < t) t = t1;
    if (t > 0) d2 += t*t;
}
```

könnte man hier implementieren

Periodic mindist2