Elements of Coding Linear Algebra

The Nucleus of Artificial Intelligence

$$\therefore f_n(k,\; p) = \left\{ \begin{array}{ll} \sum\limits_{\delta \in L,\; |\delta|} \{f_{n,\; 1}(k-1,\; p-\delta)\} & \text{otherwise} \end{array} \right.$$

A Hacker's Perspective

```
1. Itinoten perfectkriya(\alpha)

2. I(\mathbf{J}, \alpha) \leftarrow \{\infty\}

3. I(\mathbf{J}, -\mathbf{J})

4. for \beta \in [1, \alpha] do

5. for \gamma \in [1, \sqrt{\beta}] do

6. f[\beta] \leftarrow \min(\mathbf{f}[\beta], \mathbf{f}[\beta - \gamma^2] + \mathbf{1})

7. end for

8. end for

9. return f[\alpha]

10. end function
```

```
// max no of Kriyas with beta Pranayams
int n = std::min(beta, alpha);
std::vector<int> f(n, 0);
f(0) = 1;
for(int p = 1; p <= beta; p++)
{
    int prev = 0, cur = 0;
    for(int k = 0; k < n; k++)
    {
        cur = f(k);
        f(k) += prev + (k+1 < n ? f(k+1) : 0);
    }
}</pre>
```

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