Sheet

Heinrich Dinkel
ID: 1140339107
E-mail: heinrich.dinkel@sjtu.edu.cn

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Here we try to split the data into roughly equal parts.
The first, last and process controlling element j are given as:

$$i\left\lfloor \frac{n}{p} \right\rfloor + \min(i, r)$$
$$(i+1)\left\lfloor \frac{n}{p} \right\rfloor + \min(i+1, r) - 1$$
$$\min\left(\left\lfloor \frac{j}{\lfloor \frac{n}{p} + 1 \rfloor} \right\rfloor, \left\lfloor \frac{j-r}{\lfloor \frac{n}{p} \rfloor} \right\rfloor\right)$$

And the second method as:

$$\left\lfloor \frac{in}{p} \right\rfloor$$
$$\left\lfloor \frac{(i+1)n}{p} - 1 \right\rfloor$$
$$\left\lfloor \frac{p(j+1)-1}{n} \right\rfloor$$

Obviously the second method is easier and more efficient.