HLR Blatt 04

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1 Datenaufteilung

1.1

```
Interlines i \in \mathbb{N}_0

Threads t \in \mathbb{N}

Berechenbare Reihen r = 8i + 9

T \in t \to R_T \in r:

R_T \in RR
```

jeder Thread kriegt eine Menge an Reihen (Ziffern in der Menge als Indizes der Reihen)

```
f(i,t) = \begin{cases} \text{für } (r-2) \mod t = 0 : A = (\overline{R_{T-1}} + \overline{R_{T-2}} + \ldots); R_T = \{A+1, A+2, \ldots, A+(int)\frac{r}{t}\} \\ \text{für } (r-2) \mod t \neq 0 : A = s.o.; \\ \begin{cases} \text{für } \overline{RR} > ((r-2) \mod t) \text{ s. Fall } 1 \\ \text{sonst } A = (\overline{R_{T-1}} + \overline{R_{T-2}} + \ldots); R_T = \{A+1, A+2, \ldots, A+(int)\frac{r}{t}, A+(int)\frac{r}{t} + 1\} \end{cases}
```

1.2

```
int i = getInterlines();
int r = i * 8 + 9 - 2;
int t = getThreads();
int rowsPerThread = (int) r / t;
int rPT_rest = r % t;
int currentRow = 1;
for (int i = 0; i < t; i++)
{
    threads[i].assignStart(currentRow);
    if (rPT_rest > 0)
    {
        threads[i].assignEnd(rowsPerThread+1);
        rPT_rest --;
        currentRow = rowsPerThread+1;
    }
}
```

```
else
{
    threads[i].assignEnd(currentRow);
    currentRow = rowsPerThread;
}

1.3
```



