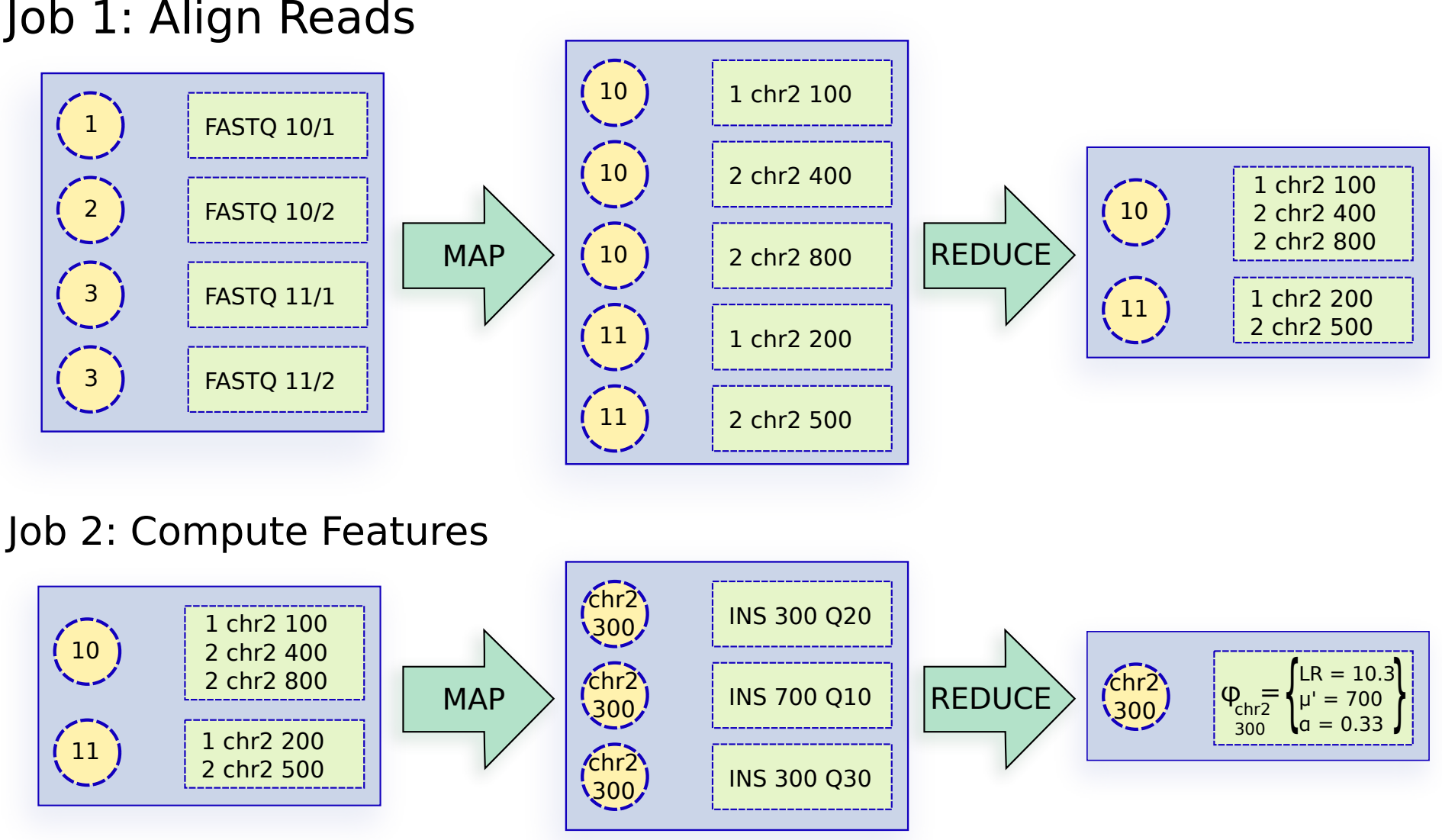
Job 1: Align Reads
1
FASTQ 10/1
2
FASTQ 10/2
3
FASTQ 11/1
3
FASTQ 11/2
MAP
10
1 chr2 100
10
2 chr2 400
10
2 chr2 800
11
1 chr2 200
11
2 chr2 500
REDUCE
10
1 chr2 100
2 chr2 400
2 chr2 800
11
1 chr2 200
2 chr2 500
Job 2: Compute Features
10
1 chr2 100
2 chr2 400
2 chr2 800
11
1 chr2 200
2 chr2 500
MAP
chr2 300
INS 300 Q20
chr2 300
INS 700 Q10
chr2 300
INS 300 Q30
REDUCE
chr2 300
$\varphi_{\substack{chr2\\300}} = \left\{ \begin{matrix} LR = 10.3 \\ \mu' = 700 \\ \alpha = 0.33 \end{matrix} \right\}$