

Raw data file 1

```
@ header_read1_1
AAGTGCCACATATCGT

@ header_read2_1
CTAGGAGCTGAATCGA

@ header_read3_1
CCGTGCGAGTAACGTA

@ header_read4_1
CGAAGCGAGTAACTGA

...
```

Find barcode sequences

```
@ header_read1_1
AAGTGCCACATATCGT

@ header_read2_1
CTAGGAGCTGAATCGA

@ header_read3_1
CCGTGCGAGTAACGTA

@ header_read4_1
CGAAGCGAGTAACTGA

...
```

Raw data file 2

```
@ header_read1_2
AAGTGCGAGTAATCGT

@ header_read2_2
CTAGGATAGACATCGA

@ header_read3_2
CCGTGATAGACACGTA

@ header_read4_2
CGAAGCGGGATACTGA

...
```

```
@ header_read1_2
AAGTGGCGAGTAATCGT

@ header_read2_2
CTAGGATAGACATCGA

@ header_read3_2
CCGTGATAGACACGTA

@ header_read4_2
CGAAGCGGGATACTGA

...
```

```
Barcode read 1_1: sample 1
Barcode read 1_2: sample 1

Barcode read 2_1: sample 2
Barcode read 2_2: sample 2

Barcode read 3_1: sample 1 → ?
Barcode read 3_2: sample 2

Barcode read 4_1: sample 1
Barcode read 4_2: sample ? → ?
```

Data file sample 1

```
@ header_read1_1
AAGTGCCACATATCGT

@ header_read1_2
AAGTGCGAGTAATCGT

...
```

Data file sample 2

```
@ header_read2_1
CTAGGAGCTGAATCGA

@ header_read2_2
CTAGGATAGACATCGA

...
```

Barcodes

```
Sample 1 forward:
GCCACATA

Sample 1 reverse:
GCGAGTAA

Sample 2 forward:
GAGCTGAA

Sample 2 reverse:
GATAGACA
```