```
(base) Yifans-MBP:Desktop yifan$ ./runcas.sh ./MI.M03992_0353.001.FLD0004.PTEN2-12_R1.fastq_input.txt_100random_input.txt
 ./MI.M03992_0333.001.HLD00004.PIEN2-12_K1.Tastq_nn
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
 Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
Comparing patterns in chunk #4...
Comparing patterns in chunk #4...
2.4219 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0006.PTEN2-12_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0006.PTEN2-24_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
   Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
  Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
   Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
   Sending data to devices...
Chunk load started.
2 devices selected to analyze...
  Z devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.87841 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0005.PTENZ-24_R1.fastq_input.txt_100random_input.txt.output.txt
     ./MI.M03992_0353.001.FLD0011.PTEN2-1_R1.fastq_input.txt_100random_input.txt
    Total 2 device(s) found.
   Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
    Sending data to devices..
   Chunk load started.
```

```
devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
Z devices selected to analyze...
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.97697 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0011.PTEN2-1_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0012.PTEN2-13_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
  Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Reading /Users/ylTan/Miseq/myreference//Pb3.Ta...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze
 2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
 Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing pattern in chunk #4...

2.96808 seconds elapsed.

The output for above file is generated
./MI.M03992_0353.001.FLD0012.PTEN2-13_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0013.PTEN2-25_R1.fastq_input.txt_100random_input.txt
 Total 2 device(s) found.
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/wijfon/MiSeq/myreforence//DIEN2 for
 Reading /Users/ujfan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
CHUNK load Started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4.
 Finding pattern in chunk #4...

2.85088 seconds elapsed.

The output for above file is generated
./MI.M03992_0353.001.FLD0013.PTEN2-25_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0019.PTEN2-2_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing natterns in chunk #3.
 Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 2.90704 seconds elapsed.
 The output for above file is generated
```

```
./MI.M03992_0353.001.FLD0019.PTEN2-2_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0020.PTEN2-14_R1.fastq_input.txt_100random_input.txt
./MI.M03992_0353.001.HLD0020.PIEN2-14_K1.fastq_n
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
  2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
Comparing patterns in cumin #4...
2.96607 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0020.PTEN2-14_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0027.PTEN2-3_R1.fastq_input.txt_100random_input.txt
  Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
Z devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.83777 seconds elapsed.
The output for above file is generated
./MI.N03992_0353.001.FLD0027.PTEN2-3_R1.fastq_input.txt_100random_input.txt.output.txt
Total 2 device(s) found.
Loading.input.file
Loading.input.file
Loading.input.file
Loading.input.file
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/vjfan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze
  2 devices selected to analyze...
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
 Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.88512 seconds elapsed.
The output for above file is generated
  ./MI.M83992_0353.001.FLD0028.PTEN2-15_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0035.PTEN2-4_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
 Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
```

```
Sending data to devices...
 Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.50878 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0035.PTEN2-4_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0036.PTEN2-16_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
  Total 2 device(s) found.
  Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Readina /Users/yifan/Misea/myreference//BRCA1.fa...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.83626 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0036.PTEN2-16_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0043.PTEN2-5_R1.fastq_input.txt_100random_input.txt
 Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
County load Started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.89969 seconds elapsed.
 The output for above file is generated
./MI.M03992_0353.001.FLD0043.PTEN2-5_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0044.PTEN2-17_R1.fastq_input.txt_100random_input.txt
./MI.M03992_0353.001.FLD0044.PTEN2-17_R1.fastq_inprotal 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 2.81526 seconds elapsed.
The output for above file is generated
./MI.M8992_0853.001.FLD0044.PTEN2-17_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0853.001.FLD0051.PTEN2-6_R1.fastq_input.txt_100random_input.txt
 ./Mi./Medy9/Z_0333.001.Flb0051.FlEN2-0_K1.Tastq_Inp
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
  2 devices selected to analyze...
  Finding pattern in chunk #2
 Comparing patterns in chunk #2...
```

```
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 2.90852 seconds elapsed.
  2.9002 Seconds elapsed.

The output for above file is generated
./MI.M03992_0353.001.FLD0051.PTEN2-6_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0052.PTEN2-18_R1.fastq_input.txt_100random_input.txt
 ./Mi.mwayyz_b33.001.Flb0052.F/EM2-16_Ki.faStq_in
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
  Sending data to devices...
 2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 2.76076 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0052.PTEN2-18_R1.fastq_input.txt_100random_input.txt.output.txt
 ./MI.M03992_0333.001.FLD00652.PIEN2=18_R1.fastq_input.txt_100random_input.tx
./MI.M03992_0353.001.FLD0059.PTEN2=7_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
 Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
1.40591 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0059.PTEN2-7_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0060.PTEN2-19_R1.fastq_input.txt_100random_input.txt
Total 2 devise(s) found
   Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Reading /users/yllan/miseq/mmyrere
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
County load Started.

Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #4...

Comparing patterns in chunk #4...

2.85478 seconds elapsed.
The output for above file is generated

./MI.M03992_0353.001.FLD0060.PTEN2-19_R1.fastq_input.txt_100random_input.txt.output.txt

./MI.M03992_0353.001.FLD0067.PTEN2-8_R1.fastq_input.txt_100random_input.txt
 Total 2 device(s) found.

Loading input file...

Reading /Users/yifan/MiSeq/myreference//P53.fa...

Sending data to devices...

Chunk load started.

2 devices selected to analyze...
  Finding pattern in chunk #1...
```

```
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/vjifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
 Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #4...
 Comparing patterns in chunk #4...
2.75362 seconds elapsed.
 The output for above file is generated
./MI.M03992_0353.001.FLD0067.PTEN2-8_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0068.PTEN2-20_R1.fastq_input.txt_100random_input.txt
./MI.M03992_0353.001.FLD0068.PTEN2-20_R1.fastq_input Total 2 device(s) found. Loading input file... Reading /Users/yifan/MiSeq/myreference//P53.fa... Sending data to devices... Chunk load started. 2 devices selected to analyze... Finding pattern in chunk #1... Comparing patterns in chunk #1... Reading /Users/yifan/MiSeq/myreference//PTEN3.fa... Sending data to devices... Chunk load started.
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze..
Finding pattern in chunk #3...
 Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.74641 seconds elapsed.
 The output for above file is generated ./MI.M03992_0353.001.FLD0068.PTEN2-20_R1.fastq_input.txt_100random_input.txt.output.txt ./MI.M03992_0353.001.FLD0075.PTEN2-9_R1.fastq_input.txt_100random_input.txt
./Mi./Mb39/Z_0335.001.FLD00/3.FIENZ=Y_KI.Tastq_inp
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...

Finding pattern in chunk #1...

Comparing patterns in chunk #1...

Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...

Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.79669 seconds elapsed.
 Comparing patterns in clinic wave...

2.79669 seconds elapsed.

The output for above file is generated
./MI.M03992_0353.001.FLD0076.PTEN2-9_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0076.PTEN2-21_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
 Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
 Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 2.97113 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0076.PTEN2-21_R1.fastq_input.txt_100random_input.txt.output.txt
   ./MI.M03992_0353.001.FLD0083.PTEN2-10_R1.fastq_input.txt_100random_input.txt
```

```
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...

Finding pattern in chunk #1...

Comparing patterns in chunk #1...

Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...

Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
Comparing patterns in chunk #4...
2.89832 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD00083.PTEN2-10_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD00084.PTEN2-22_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/Miseq/myreference//P53.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
 Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #4...

Comparing patterns in chunk #4...

2.88397 seconds elapsed.
The output for above file is generated

./MI.M03992_0353.001.FLD00084.PTEN2-22_R1.fastq_input.txt_100random_input.txt.output.txt

./MI.M03992_0353.001.FLD00091.PTEN2-11_R1.fastq_input.txt_100random_input.txt

Total 2 device(s) found
  Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
 Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing pattern in chunk #4...

2.8647 seconds elapsed.

The output for above file is generated.
//MI.M03992_0353.001.FLD0091.PTEN2-11_R1.fastq_input.txt_100random_input.txt.output.txt
//MI.M03992_0353.001.FLD0092.PTEN2-23_R1.fastq_input.txt_100random_input.txt
 Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
  Sending data to devices...
 Chunk load started.
```

```
devices selected to analyze...
 Finding pattern in chunk #4.
 Comparing patterns in chunk #4...
 2.86246 seconds elapsed.
The output for above file is generated
 ./MI.M03992_0353.001.FLD0092.PTEN2-23_R1.fastq_input.txt_100random_input.txt.output.txt (base) Yifans-MBP:Desktop yifan$ ./runcas.sh ./MI.M03992_0353.001.FLD0006.PTEN3-11_R1.fastq_input.txt_100random_input.txt
 ./Mi.med.yyz_b335.001.Fl.Deb00.FlEN3-11_R1.F3Stq_IN
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Z devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing pattern in chulk #4...

Comparing patterns in chunk #4...

3.71179 seconds elapsed.

The output for above file is generated

./MI.M03992_0353.001.FLD0006.PTEN3-11_R1.fastq_input.txt_100random_input.txt.output.txt

./MI.M03992_0353.001.FLD0007.PTEN3-23_R1.fastq_input.txt_100random_input.txt

Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/vjifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.96722 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0007.PTEN3-23_R1.fastq_input.txt_100random_input.txt.output.txt
Total 2 device(s) found.
Loading input file
Loading input file
 Chunk load started.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/vjfan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze
 2 devices selected to analyze...
 Finding pattern in chunk #2...
Comparing patterns in chunk #2...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
County load Started.

Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing pattern in chunk #4...

3.2574 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0014.PTEN3-12_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0015.PTEN3-24_R1.fastq_input.txt_100random_input.txt
 Total 2 device(s) found.
 lotal 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
```

```
Sending data to devices...
Chunk load started.
Count load Started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.84734 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0015.PTEN3-24_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0021.PTEN3-1_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.32046 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0021.PTEN3-1_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0022.PTEN3-13_R1.fastq_input.txt_100random_input.txt
./MI.M03992_0333.001.HLD0022.PIEN3-13_K1.fastq_n
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
County load Started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Reading /Users/ylran/Miseq/myrere
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
Comparing patterns in comm .....
2.9966 seconds elapsed.
The output for above file is generated
./MI.Me3992_0853.001.FLD0022.PTEN3-13_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0853.001.FLD0023.PTEN3-25_R1.fastq_input.txt_100random_input.txt
 Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
Chunk load Started.

2 devices selected to analyze...

Finding pattern in chunk #1...

Comparing patterns in chunk #1...

Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...

Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.91653 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0023.PTEN3-25_R1.fastq_input.txt_100random_input.txt.output.txt
 ./MI.M03992_0353.001.FLD0029.PTEN3-2_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
 Finding pattern in chunk #1
Comparing patterns in chunk #1...
```

```
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
 Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 Comparing patterns in climic #+...

2.84412 seconds elapsed.

The output for above file is generated
./MI.M03992_0353.001.FLD0029.PTEN3-2_R1.fastq_input.txt_100random_input.txt.output.txt
 ./MI.M03992_0353.001.FLD0030.PTEN3-14_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices..
 Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Sending /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.85483 seconds elapsed.
The output for above file is generated
 ./MI.M03992_0353.001.FLD0030.PTEN3-14_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0037.PTEN3-3_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Einding nattern in chunk #4.
 Finding pattern in chunk #4..
Finding pattern in cnunk #4...

2.847 seconds elapsed.

The output for above file is generated
./MI.M03992_0353.001.FLD0037.PTEN3-3_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0038.PTEN3-15_R1.fastq_input.txt_100random_input.txt
 Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Reading /obsers/yllan/miseq/mmyrere
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
County load Started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.90394 seconds elapsed.
 The output for above file is generated
./MI.M03992_0353.001.FLD0038.PTEN3-15_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0045.PTEN3-4_R1.fastq_input.txt_100random_input.txt
  Total 2 device(s) found.
```

```
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
  2 devices selected to analyze...
  Finding pattern in chunk #1...
Comparing patterns in chunk #1...
  Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
  Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
   Sending data to devices...
 Comparing pattern in chunk #4...
Comparing patterns in chunk #4...
  Comparing percent in the control of 
  Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
  Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
  Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
  Sending data to devices...
Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #4...
Comparing patterns in chunk #4...
  2.85634 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0046.PTEN3-16_R1.fastq_input.txt_100random_input.txt.output.txt
    ./MI.M03992_0353.001.FLD0053.PTEN3-5_R1.fastq_input.txt_100random_input.txt
    Total 2 device(s) found.
  Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.

2 devices selected to analyze...

Finding pattern in chunk #1...

Comparing patterns in chunk #1...

Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...

Sending data to devices...
Reading /Users/ylran/Miseq/myrererence//PIEN3.Ta...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing pattern in chunk #4...
2.75433 seconds elapsed.
  Comparing patterns in crunk ##...
2.95433 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0053.PTEN3-5_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0054.PTEN3-17_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
  Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
  2 devices selected to analyze...
  Finding pattern in chunk #3...
Comparing patterns in chunk #3...
  Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
   Chunk load started.
   2 devices selected to analyze...
```

```
Finding pattern in chunk #4.
Comparing patterns in chunk #4...

2.77941 seconds elapsed.
The output for above file is generated

./MI.M03992_0353.001.FLD0054.PTEN3-17_R1.fastq_input.txt_100random_input.txt.output.txt
    /MI.M03992_0353.001.FLD0061.PTEN3-6_R1.fastq_input.txt_100random_input.txt
  Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
  Sending data to devices...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.87867 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0061.PTEN3-6_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0062.PTEN3-18_R1.fastq_input.txt_100random_input.txt
Total 2 devise(s) found
  Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #2...
Comparing patterns in chunk #2...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.66192 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD00662.PTEN3-18_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD00669.PTEN3-7_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
./Mi.Md399Z_0333.001.FLD0069.PIEN3-/_Ri.Tastq_inpl
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
 Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.93119 seconds elapsed.
 The output for above file is generated ./MI.M03992_0353.001.FLD0069.PTEN3-7_R1.fastq_input.txt_100random_input.txt.output.txt ./MI.M03992_0353.001.FLD0070.PTEN3-19_R1.fastq_input.txt_100random_input.txt
./MI.M03992_0353.001.FLD0070.PTEN3-19_R1.fastq_input
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
  Sending data to devices...
 Chunk load started.
```

```
devices selected to analyze...
  Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
  Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #4...
Comparing patterns in chunk #4...
  2.88714 seconds elapsed.
The output for above file is generated
./MI.M69992_0835.001.FLD0070.PTEN3-19_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_08353.001.FLD0077.PTEN3-8_R1.fastq_input.txt_100random_input.txt
  Total 2 device(s) found.
Loading input file...
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
  Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
  Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
  Sending data to devices...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze
  2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
  2.9227 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0077.PTEN3-8_R1.fastq_input.txt_100random_input.txt.output.txt
 ./Mi.Megay2_egas.edi.FiDe077.FTEN3-8_RI.Hastq_input.txt_100random_input.txt.
./MI.Megay2_egas.edi.FiDe078.PTEN3-20_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
  2 devices selected to analyze...
Finding pattern in chunk #1...
  Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
3.10194 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD00078.PTEN3-20_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD00085.PTEN3-9_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
  Sending data to devices...
  Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #1..
  Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
  Sending data to devices...
Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #2...
Comparing patterns in chunk #2...
  Reading /Users/ujfan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
  Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #4...

Comparing patterns in chunk #4...

2.95142 seconds elapsed.
The output for above file is generated

./MI.M03992_0353.001.FLD0085.PTEN3-9_R1.fastq_input.txt_100random_input.txt.output.txt

./MI.M03992_0353.001.FLD0086.PTEN3-21_R1.fastq_input.txt_100random_input.txt

Total 2 (Agvice(s) found.
  Total 2 device(s) found.
  Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
  Sending data to devices...
Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
  Sending data to devices...
```

```
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #2...
Comparing patterns in chunk #2.
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #4...

Comparing patterns in chunk #4...

2.85377 seconds elapsed.
The output for above file is generated

./MI.M03992_0353.001.FLD0086.PTEN3-21_R1.fastq_input.txt_100random_input.txt.output.txt

./MI.M03992_0353.001.FLD00093.PTEN3-10_R1.fastq_input.txt_100random_input.txt
 Chunk load started.
 Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices..
Chunk load started.
  2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Finding pattern in chunk #4...

Comparing patterns in chunk #4...

2.98546 seconds elapsed.

The output for above file is generated
./MI.M03992_0353.001.FLD0093.PTEN3-10_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0094.PTEN3-22_R1.fastq_input.txt_100random_input.txt
./Mi./Mosyvz_boss.bul.ri.buby4.PiEN3-22_Ri.rastq_inf
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/vjifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Comparing pattern in chunk #4...
Comparing patterns in chunk #4...
  2.32594 seconds elapsed.
 The output for above file is generated ./MI.M03992_0353.001.FLD0094.PTEN3-22_R1.fastq_input.txt_100random_input.txt.output.txt
  (dase) Yifans-MBP:Desktop yifans ./runcas.sh
./MI.M03992_0353.001.FLD0001.p53-1_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/vjifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
 Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
3.42478 seconds elapsed.
The output for above file is generated
  The output to above interest generated ./MI.M03992_0353.001.FLD0001.p53-1_R1.fastq_input.txt_100random_input.txt.output.txt ./MI.M03992_0353.001.FLD0002.p53-13_R1.fastq_input.txt_100random_input.txt Total 2 device(s) found.
  Loading input file...
```

```
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #2...
Comparing patterns in chunk #2...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
 Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Finding pattern in chunk #4...

2.94308 seconds elapsed.

The output for above file is generated.
//MI.M03992_0353.001.FLD0003.p53-13.R1.fastq_input.txt_100random_input.txt.output.txt
//MI.M03992_0353.001.FLD0003.p53-25_R1.fastq_input.txt_100random_input.txt
  Total 2 device(s) found.
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
 Finding pattern in chunk #4...

2.91229 seconds elapsed.

The output for above file is generated
./MI.M89992_0835.001.FLD0003.p53-25_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M93992_0853.001.FLD0009.p53-2_R1.fastq_input.txt_100random_input.txt
./MI.M03992_0353.001.FLD0009.p53-2_R1.fastq_input. Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Einding nattern in chunk #3
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.97362 seconds elapsed.
 Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
County load Started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
```

```
Comparing patterns in chunk #4...
  2.87317 seconds elapsed.
  2.8/31/ Seconds Glapsed.

The output for above file is generated
./MI.M03992_0353.001.FLD0010.p53-14_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0017.p53-3_R1.fastq_input.txt_100random_input.txt
    Total 2 device(s) found.
  Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
 Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding patterns in chunk #4...
Comparing patterns in chunk #4...
Comparing patterns in chunk #4...
3.00733 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0017.p53-3_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0018.p53-15_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
  Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
  Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/vjrfan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
  Chunk load started.
   2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.97488 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0018.p53-15_R1.fastq_input.txt_100random_input.txt.output.txt
Total 2 device(s) found.
Leading input file
Leading input file
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Comparing pattern in chunk #2...
Comparing pattern in chunk #2...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
  Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
  Comparing patterns in chunk #4...
2.97503 seconds elapsed.
The output for above file is generated
   ./MI.M03992_0353.001.FLD0025.p53-4_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0026.p53-16_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
 Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/wifan/MiSeq/myreference//PTFN3 fa...
  Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
   2 devices selected to analyze...
  Finding pattern in chunk #2...
Comparing patterns in chunk #2...
  Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
   Chunk load started.
   2 devices selected to analyze...
```

```
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.82097 seconds elapsed.
The output for above file is generated
  ./MI.M03992_0353.001.FLD0026.p53-16_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0033.p53-5_R1.fastq_input.txt_100random_input.txt
 Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Comparing patterns in Chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.9684 seconds elapsed.
 The output for above file is generated
./MI.M03992_0353.001.FLD0033.p53-5_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0034.p53-17_R1.fastq_input.txt_100random_input.txt
./Mi./Mosyvz_boss.bul.ri.bubus4.pbs-1/_Ri.lastq_inpu
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 2.23815 seconds elapsed.
The output for above file is generated
./MI.Megoy2_0353.001.FLD0034.p53-17_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0041.p53-6_R1.fastq_input.txt_100random_input.txt
 Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
 Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
 Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 2.90124 seconds elapsed.
 2.90124 seconus etapseu.
The output for above file is generated
./MI.M03992_0353.001.FLD0041.p53-6_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0042.p53-18_R1.fastq_input.txt_100random_input.txt
  Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
 Chunk load started.
```

```
devices selected to analyze...
 Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
Z devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 Comparing patterns in cumin w4...
2.63314 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0042.p53-18_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0049.p53-7_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
 Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze
 2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
 Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
County load stated.

2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.74653 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0049.p53-7_R1.fastq_input.txt_100random_input.txt.output.txt
   /MI.M03992_0353.001.FLD0050.p53-19_R1.fastq_input.txt_100random_input.txt
  Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices..
 Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #4...

Comparing patterns in chunk #4...

2.86686 seconds elapsed.

The output for above file is generated

./MI.M03992_0353.001.FLD0050.p53-19_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD00657.p53-8_R1.fastq_input.txt_100random_input.txt

Total 2 device(s) found
  Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing natterns in chunk #4.
 Finding pattern in chunk #4...

3.02339 seconds elapsed.

The output for above file is generated
./MI.M03992_0853.001.FLD0057.p63-8_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0853.001.FLD0058.p53-20_R1.fastq_input.txt_100random_input.txt
 Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices...
```

```
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.82627 seconds elapsed.
 2.8202/ Seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0058.p53-20_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0065.p53-9_R1.fastq_input.txt_100random_input.txt
./MI.M03992_0353.001.FLD0065.p53-9_R1.fastq_input.to
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
  2.88548 seconds elapsed.
  2.86346 Seconds elapsed.

The output for above file is generated

./MI.M03992_0353.001.FLD0065.p53-9_R1.fastq_input.txt_100random_input.txt.output.txt

./MI.M03992_0353.001.FLD0066.p53-21_R1.fastq_input.txt_100random_input.txt
 ./Mi.mea-yyz_es33.001.ripubeoo.ps3-21_Ri.lastq_inpu
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/vjfan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze
 2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 2.84535 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0066.p53-21_R1.fastq_input.txt_100random_input.txt.output.txt
  ./MI.M03992_0353.001.FLD0073.p53-10_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 2.52914 seconds elapsed.
```

```
The output for above file is generated ./MI.M03992_0353.001.FLD0073.p53-10_R1.fastq_input.txt_100random_input.txt.output.txt
 ./MI.M03992_0353.001.FLD0073.p35-12_RI.Hastq_Input.txt_100random_Input.txt
./MI.M03992_0353.001.FLD0074.p53-22_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
 Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
 Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.82046 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0074.p53-22_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0081.p53-11_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found
 Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
 Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
 Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.90147 seconds elapsed.
The output for above file is generated
  ./MI.M03992_0353.001.FLD0081.p53-11_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0082.p53-23_R1.fastq_input.txt_100random_input.txt
  Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/vifan/MiSeq/myreference//BRCA1 fa...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
CHUNK load Started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/vjfan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
3.00893 seconds elapsed.
 The output for above file is generated
./MI.M03992_0353.001.FLD0082.p53-23_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0089.p53-12_R1.fastq_input.txt_100random_input.txt
./Mi./Mosyyz_boss.bul.ri.bubox.pbs-1z_Ri.lastq_inpu
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/vjifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
      devices selected to analyze...
  Finding pattern in chunk #3
 Comparing patterns in chunk #3...
```

```
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 2.98168 seconds elapsed.
 2.70106 Settomus erapseu.

The output for above file is generated
./MI.M03992_0353.001.FLD0089.p53-12_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0090.p53-24_R1.fastq_input.txt_100random_input.txt
./MI.M03992_0353.001.FLD0099.pb3-24_R1.fastq_input
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #2...
 Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2 #02779 seconds alapsed
 3.02779 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0090.p53-24_R1.fastq_input.txt_100random_input.txt.output.txt
 (base) Yifans-MBP:Desktop yifan$ ./runcas.sh
./MI.M03992_0353.001.FLD0008.BRCA1-10_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/vjifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
3.38538 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD00008.BRCA1-10_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0016.BRCA1-11_R1.fastq_input.txt_100random_input.txt
./MI.M03992_0353.001.FLD0016.BRCA1-11_R1.fastq_input.txt_100random_input.txt
  Total 2 device(s) found.
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Peading /Users/wifan/MiSeq/myreference//PTEN3 fa.
Comparing patterns in chunk #1...

Sending data to devices...

Chunk load started.

2 devices selected to analyze...

Finding pattern in chunk #2...

Comparing patterns in chunk #2...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
 Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.34253 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0016.BRCA1-11_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0016.BRCA1-12_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0016.BRCA1-12_R1.fastq_input.txt_100random_input.txt
./Mi.Mosyvz_boss.bul.ri.bub24.bkcA1-12_ki.fastq_in
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
 2 devices selected to analyze...
```

```
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
Count load Started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Z devices serveted to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.82498 seconds elapsed.
The output for above file is generated
./MI.M83992_0353.001.FLD0024.BRCA1-12_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0031.BRCA1-1_R1.fastq_input.txt_100random_input.txt
 Total 2 device(s) found.
Loading input file...
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.75842 seconds elapsed.
 2.70842 Seconds erapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0031.BRCA1-1_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0032.BRCA1-13_R1.fastq_input.txt_100random_input.txt
 Total 2 device(s) found.
Loading input file...
 Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.61531 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0032.BRCA1-13_R1.fastq_input.txt_100random_input.txt.output.txt
total 2 device(s) found.
Loading input file...
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
 Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 2./73906 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0039.BRCA1-2_R1.fastq_input.txt_100random_input.txt.output.txt
   /MI.M03992_0353.001.FLD0040.BRCA1-14_R1.fastq_input.txt_100random_input.txt
  Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices.
 Chunk load started.
```

```
devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
Z devices selected to analyze...
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.78757 seconds elapsed.
The output for above file is generated
./MI.N03992_0353.001.FLD0047.BRCA1-14_R1.fastq_input.txt_100random_input.txt.output.txt
Total 2 device(s) found.
Loading input file...
  Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Reading /Users/ylTan/Miseq/myreference//Pb3.Ta...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze
 2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
 Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...

2.77958 seconds elapsed.

The output for above file is generated
./MI.M03992_0353.001.FLD0047.BRCA1-3_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0048.BRCA1-15_R1.fastq_input.txt_100random_input.txt
  Total 2 device(s) found.
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/wijfon/MiSeq/myreforence//DIEN2 for
 Reading /Users/ujfan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
  2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
CHUNK load Started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
  Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #4.
 Finding pattern in chunk #4...

2.80956 seconds elapsed.

The output for above file is generated
./MI.M03992_0353.001.FLD0048.BRCA1-15_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0055.BRCA1-4_R1.fastq_input.txt_100random_input.txt
./Mi.mbd.yvz_b335.bbl.ri.bbbso.bkcA1-4_Ki.fastq_inpi
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing natterns in chunk #3.
 Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
  Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
  2.78108 seconds elapsed.
  The output for above file is generated
```

```
./MI.M03992_0353.001.FLD0055.BRCA1-4_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0056.BRCA1-16_R1.fastq_input.txt_100random_input.txt
./MI.M03992_0333.001.HLD0066.BRCA1=16_R1.fastq_n
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
  2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
Comparing patterns in cumin #4...
2.74659 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0066.BRCA1-16_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0063.BRCA1-5_R1.fastq_input.txt_100random_input.txt
  Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 Comparing patterns in chunk #4...
2.7995 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0063.BRCA1-5_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0064.BRCA1-17_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/vjfan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze
  2 devices selected to analyze...
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
 Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.78111 seconds elapsed.
The output for above file is generated
  ./MI.M83992_0353.001.FLD0064.BRCA1-17_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0071.BRCA1-6_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
 Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
```

```
Sending data to devices...
 Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.73361 seconds elapsed.
The output for above file is generated
  ./MI.M03992_0353.001.FLD0071.BRCA1-6_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0072.BRCA1-18_R1.fastq_input.txt_100random_input.txt
  Total 2 device(s) found.
  Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Readina /Users/yifan/Misea/myreference//BRCA1.fa...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.76959 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0072.BRCA1-18_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0079.BRCA1-7_R1.fastq_input.txt_100random_input.txt
Tatal 2.devise(a) faund
 Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
County load Started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.79936 seconds elapsed.
 The output for above file is generated
./MI.M03992_0353.001.FLD0079.BRCA1-7_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0080.BRCA1-19_R1.fastq_input.txt_100random_input.txt
./MI.M03992_0353.001.FLD0080.BRCA1-19_R1.fastq_inpTotal 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
Chunk load Started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.8818 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0080.BRCA1-19_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0087.BRCA1-8_R1.fastq_input.txt_100random_input.txt
 ./Mi.mea-yyz_ess3.edi.ri.pede6.excA1-6_K1.fastq_inp
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
  2 devices selected to analyze...
  Finding pattern in chunk #2
 Comparing patterns in chunk #2...
```

```
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 2.60075 seconds elapsed.
  2.00075 Seconds elapsed.

The output for above file is generated
./MI.M03992_0353.001.FLD0087.BRCA1-8_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0088.BRCA1-20_R1.fastq_input.txt_100random_input.txt
 ./Mi.mwayyz_b33.001.ripoboo.bk.A1-20_k1.faStq_in
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
  Sending data to devices...
 2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 2.64557 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0088.BRCA1-20_R1.fastq_input.txt_100random_input.txt.output.txt
 ./MI.M03992_0333.001.FLD0088.BRCA1=20_R1.fastq_input.txt_100random_input.tx
./MI.M03992_0353.001.FLD0095.BRCA1=9_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading //Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
 Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
Count load started.

2 devices selected to analyze...

Finding pattern in chunk #4...

Comparing patterns in chunk #4...

2.84555 seconds elapsed.

The output for above file is generated

./MI.M03992_0353.001.FLD0095.BRCA1-9_R1.fastq_input.txt_100random_input.txt.output.txt
    /MI.M03992_0353.001.FLD0096.BRCA1-21_R1.fastq_input.txt_100random_input.txt
  Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Reading /users/yllan/miseq/mmyrere
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
County load Started.

Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #4...

Comparing patterns in chunk #4...

2.8489 seconds elapsed.

The output for above file is generated

./MI.M03992_0353.001.FLD0096.BRCA1-21_R1.fastq_input.txt_100random_input.txt.output.txt

./MI.M03992_0353.001.FLD0296.BRCA1-22_R1.fastq_input.txt_100random_input.txt
 Total 2 device(s) found.

Loading input file...

Reading /Users/yifan/MiSeq/myreference//P53.fa...

Sending data to devices...

Chunk load started.

2 devices selected to analyze...
  Finding pattern in chunk #1...
```

```
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/vjifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.82904 seconds elapsed.
 The output for above file is generated
./MI.M03992_0353.001.FLD0296.BRCA1-22_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0304.BRCA1-23_R1.fastq_input.txt_100random_input.txt
./MI.M03992_0353.001.FLD0304.BRCA1-23_R1.fastq_input Total 2 device(s) found. Loading input file... Reading /Users/yifan/MiSeq/myreference//P53.fa... Sending data to devices... Chunk load started. 2 devices selected to analyze... Finding pattern in chunk #1... Comparing patterns in chunk #1... Reading /Users/yifan/MiSeq/myreference//PTEN3.fa... Sending data to devices... Chunk load started.
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze..
Finding pattern in chunk #3...
 Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.78444 seconds elapsed.
 The output for above file is generated ./MI.M03992_0353.001.FLD0304.BRCA1-23_R1.fastq_input.txt_100random_input.txt.output.txt ./MI.M03992_0353.001.FLD0312.BRCA1-24_R1.fastq_input.txt_100random_input.txt
./Mi./Mb39/Z_0335.001.FLD0312.DRCA1=24_R1.faStq_in
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...

Finding pattern in chunk #1...

Comparing patterns in chunk #1...

Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...

Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
2.75784 seconds elapsed.
Comparing patterns in chunk #4...
2.75784 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0312.BRCA1-24_R1.fastq_input.txt_100random_input.txt.output.txt
./MI.M03992_0353.001.FLD0320.BRCA1-25_R1.fastq_input.txt_100random_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
 Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 2.64475 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0320.BRCA1-25_R1.fastq_input.txt_100random_input.txt.output.txt
   (base) Yifans-MBP:Desktop yifan$ ./runcas.sh
```

```
/MI.M03992_0353.001.FLD0008.BRCA1-10_R1.fastq_input.txt
  Total 2 device(s) found.
 Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
 Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #4.
Finding pattern in chunk #4...

Comparing patterns in chunk #4...
13.4575 seconds elapsed.

The output for above file is generated
./MI.M03992_0353.001.FLD0008.BRCA1-10_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0016.BRCA1-11_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/Miseq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
 Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #3...
 Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 Vollpaining parties an online warring 
9.76151 seconds elapsed. 
The output for above file is generated 
./MI.M89992_0353.001.FLD0016.BRCA1-11_R1.fastq_input.txt.output.txt 
./MI.M93992_0353.001.FLD0024.BRCA1-12_R1.fastq_input.txt
./MI.M03992_0353.001.FLD0024.BRCA1-12_R1.fastq_input
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/Miseq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
CHUNK load Started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
  Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #3..
 Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 15.119 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0024.BRCA1-12_R1.fastq_input.txt.output.txt
 ./MI.M03992_0353.001.FLD0031.BRCA1-1_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
 Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing natterns in chunk #2.
 Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
  Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Z devices selected to analyzz...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
  Sending data to devices...
```

```
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 The output for above file is generated
./MI.M89992_0353.001.FLD0031.BRCA1-1_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0032.BRCA1-13_R1.fastq_input.txt
 ./Mi.medyyz_boso.bulirLubes2.buck1-13_k1.1astq_in
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/vjfan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Z devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
15.6519 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0039.BRCA1-13_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0039.BRCA1-2_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
  2 devices selected to analyze...
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/vjifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
11.2609 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0039.BRCA1-2_R1.fastq_input.txt.output.txt
Total 2 device(s) found.
Loading input file...
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/vjfan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze
  2 devices selected to analyze...
 Finding pattern in chunk #2...
Comparing patterns in chunk #2...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
County load Started.

Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing pattern in chunk #4...

8.30504 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0040.BRCA1-14_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0047.BRCA1-3_R1.fastq_input.txt
  Total 2 device(s) found.
 lotal 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #2...
Comparing patterns in chunk #2...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
```

```
Sending data to devices...
 Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Finding nattern in chunk #4...
 2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
14.1574 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0047.BRCA1-3_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0048.BRCA1-15_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Z devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
9.38222 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0048.BRCA1-15_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0055.BRCA1-4_R1.fastq_input.txt
./MI.M03992_0353.001.HLD00b5.BRCA1-4_K1.fastq_inp
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
County load Started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
  10.7742 seconds elapsed.
 10.7742 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0055.BRCA1-4_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0056.BRCA1-16_R1.fastq_input.txt
 ./Mi.MM399Z_0333.001.FLU00050.BKCAI-16_KI.TaStq_in
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.
Counk load Started.

2 devices selected to analyze...

Finding pattern in chunk #1...

Comparing patterns in chunk #1...

Reading /Users/vjfan/MiSeq/myreference//PTEN3.fa...

Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
4.58175 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0056.BRCA1-16_R1.fastq_input.txt.output.txt
  ./MI.M03992_0353.001.FLD0063.BRCA1-5_R1.fastq_input.txt
Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.
  2 devices selected to analyze...
  Finding pattern in chunk #1
 Comparing patterns in chunk #1...
```

```
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
  2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 Comparing patterns in chunk #4...
5.60921 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0063.BRCA1-5_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0064.BRCA1-17_R1.fastq_input.txt
Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
  Sending data to devices..
 Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Sending /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
5.4724 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0064.BRCA1-17_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0071.BRCA1-6_R1.fastq_input.txt
Total 2 device(s) found.
 lotal 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Einding nattern in chunk #4.
Z devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
7.9912 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0071.BRCA1-6_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0072.BRCA1-18_R1.fastq_input.txt
 Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Reading /Osers/yllan/Miseq/mmyrere
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
County load Started.

Z devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
  Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
5.48753 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0079.BRCA1-18_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0079.BRCA1-7_R1.fastq_input.txt
   Total 2 device(s) found.
```

```
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/vjifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
  Chunk load started.
 Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
   Sending data to devices...
 Comparing pattern in chunk #4...

Sending patterns in chunk #4...
  12.5938 seconds elapsed.
The output for above file is generated
./MI.M8992_0353.001.FLD0079.BRCA1-7_R1.fastq_input.txt.output.txt
./MI.M93992_0353.001.FLD0080.BRCA1-19_R1.fastq_input.txt
  Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
  Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
  Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
  Sending data to devices...
Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #4...
Comparing patterns in chunk #4...
  12.8697 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0080.BRCA1-19_R1.fastq_input.txt.output.txt
   ./MI.M03992_0353.001.FLD0087.BRCA1-8_R1.fastq_input.txt
   Total 2 device(s) found.
  Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.

2 devices selected to analyze...

Finding pattern in chunk #1...

Comparing patterns in chunk #1...

Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...

Sending data to devices...
Reading /Users/ylran/Miseq/myrererence//PIEN3.Ta...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing pattern in chunk #4...
Comparing patterns in chunk #4...
12.3432 seconds elapsed.
  Comparing patterns in crunk ##...
12.3432 seconds elapsed.
The output for above file is generated
./MI.M83992_0353.001.FLD0087.BRCA1-8_R1.fastq_input.txt.output.txt
./MI.M83992_0353.001.FLD0088.BRCA1-20_R1.fastq_input.txt
Total 2 device(s) found.
  Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
   2 devices selected to analyze...
  Finding pattern in chunk #3...
Comparing patterns in chunk #3...
  Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
   Chunk load started.
   2 devices selected to analyze...
```

```
Finding pattern in chunk #4.
Comparing patterns in chunk #4...

10.1314 seconds elapsed.

The output for above file is generated
./MI.M03992_0353.001.FLD0088.BRCAI=20_R1.fastq_input.txt.output.txt
    /MI.M03992_0353.001.FLD0095.BRCA1-9_R1.fastq_input.txt
  Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
  Sending data to devices...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
13.856 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0095.BRCA1-9_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0096.BRCA1-21_R1.fastq_input.txt
Total 2 devise(s) found
  Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #2...
Comparing patterns in chunk #2...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Reading /Users/ylfan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
22.7017 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0096.BRCA1-21_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0296.BRCA1-22_R1.fastq_input.txt
Total 2 device(s) found.
./Mi.M0399Z_033.001.FLU0290.BRCAI=ZZ_RI.Tastq_inf
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
 Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
 Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
13.0427 seconds elapsed.
 The output for above file is generated ./MI.M03992_0353.001.FLD0296.BRCA1-22_R1.fastq_input.txt.output.txt ./MI.M03992_0353.001.FLD0304.BRCA1-23_R1.fastq_input.txt
./MI.M03992_0353.001.FLD0304.BRCA1-23_R1.fastq_input Total 2 device(s) found. Loading input file... Reading /Users/yifan/MiSeq/myreference//P53.fa... Sending data to devices... Chunk load started. 2 devices selected to analyze... Finding pattern in chunk #1... Reading /Users/yifan/MiSeq/myreference//PTEN3.fa... Sending data to devices... Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
  Sending data to devices...
 Chunk load started.
```

```
devices selected to analyze...
  Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
  Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #4...
Comparing patterns in chunk #4...
  14.9688 seconds elapsed.
The output for above file is generated
./MI.M8992_0353.001.FLD0312.BRCA1-23_R1.fastq_input.txt.output.txt
./MI.M9392_0353.001.FLD0312.BRCA1-24_R1.fastq_input.txt
./MI.M03992_0353.001.FLD0312.BRCA1-24_R1.fastq_input Total 2 device(s) found. Loading input file... Reading /Users/yifan/MiSeq/myreference//P53.fa... Sending data to devices... Chunk load started. 2 devices selected to analyze... Finding pattern in chunk #1... Reading /Users/yifan/MiSeq/myreference//PTEN3.fa... Sending data to devices... Chunk load started.
  Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
  Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
  Sending data to devices...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze
  2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
  16.4941 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0312.BRCA1-24_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0312.BRCA1-24_R1.fastq_input.txt.
./MI.M03992_0353.001.FLD0320.BRCA1-25_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
  Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding patterns in chunk #4...
Comparing patterns in chunk #4...
27.3505 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD00320.BRCA1-25_R1.fastq_input.txt.output.txt
(base) Yifans-MBP:Desktop yifan$ ./runcas.sh
./MI.M03992_0353.001.FLD0004.PTEN2-12_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Loading input file...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
   2 devices selected to analyze...
  Finding pattern in chunk #1...
Comparing patterns in chunk #1...
  Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
 County load Started.

Z devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
  Comparing pattern in chunk #4...

Sending pattern in chunk #4...

Comparing patterns in chunk #4...
  24.2532 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0004.PTEN2-12_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0005.PTEN2-24_R1.fastq_input.txt
./MI.M03992_0353.001.FLD0005.PTEN2-24_R1.fastq_injTotal 2 device(s) found.
Loading input file...
Reading /Users/yifan/Miseq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
  Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
```

```
Sending data to devices...
  Chunk load started.
 Count load Started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
  Sending data to devices...
Chunk load started.
2 devices selected to analyze...
   Finding pattern in chunk #4
   Comparing patterns in chunk #4...
   23.2279 seconds elapsed.
  Z3.2277 Seconds etapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0005.PTEN2-24_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0011.PTEN2-1_R1.fastq_input.txt
  ./Mi./Mo3972_0333.001.Fib00f1.F/EN2-1_KI.fastq_inpi
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
  Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
  Sending data to devices...
Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
  Sending data to devices...
Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
  Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
24.8093 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0011.PTEN2-1_R1.fastq_input.txt.output.txt
  ./MI.M03992_0353.001.FLD0012.PTEN2-13_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
  Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
  Chunk load started.
 County load Started.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
  Sending data to devices...
Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
Comparing patterns in chunk #4...
Comparing patterns in chunk #4...
Comparing betterns i
   /MI.M03992_0353.001.FLD0013.PTEN2-25_R1.fastq_input.txt
Total 2 device(s) found.
  Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
  Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
  Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Z devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/vjifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
  Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
31.1788 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0013.PTENZ-25_R1.fastq_input.txt.output.txt
Total 2 device(s) found.
Loading.input.file
   Loading input file...
```

```
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
  2 devices selected to analyze...
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
 Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
22.9148 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0019.PTEN2-14_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0020.PTEN2-14_R1.fastq_input.txt
   Total 2 device(s) found.
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
 Finding pattern in chunk #4...

22.3606 seconds elapsed.

The output for above file is generated
./MI.M03992_0353.001.FLD0020.PTEN2-14_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0027.PTEN2-3_R1.fastq_input.txt
./MI.M03992_0353.001.FLD0027.PTEN2-3_R1.fastq_inpt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Einding nattern in chunk #3
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
  Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
32.5187 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0027.PTEN2-3_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0028.PTEN2-15_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
County load Started.

Z devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
County load Started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
  Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #4...
```

```
Comparing patterns in chunk #4...
    17.5286 seconds elapsed.
    The output for above file is generated
./MI.M03992_0353.001.FLD0028.PTEN2-15_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0035.PTEN2-4_R1.fastq_input.txt
   ./MI.M03992_0333.001.FLD0035.PIEN2-4_R1.Tastq_inpl
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
   Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
Comparing pattern in chunk #4...
26.0206 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0035.PTEN2-4_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0035.PTEN2-16_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
   Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
  Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
   2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/vjrfan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
    Chunk load started.
2 devices selected to analyze...
  2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
4.16618 seconds elapsed.
The output for above file is generated
./MI.N03992_0353.001.FLD0036.PTEN2-16_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0043.PTEN2-5_R1.fastq_input.txt
Total 2 device(s) found.
Leading input file
 ./MI.M0399Z_0353.001.FLD0043.PIENZ-5_R1.fastq_input.
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/Miseq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
    Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
   Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
    Comparing patterns in chunk #4...
23.8029 seconds elapsed.
The output for above file is generated
     ./MI.M03992_0353.001.FLD0043.PTEN2-5_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0044.PTEN2-17_R1.fastq_input.txt
Total 2 device(s) found.
  Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
     2 devices selected to analyze...
    Finding pattern in chunk #2...
Comparing patterns in chunk #2...
    Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
     Chunk load started.
     2 devices selected to analyze...
```

```
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #4...

Comparing patterns in chunk #4...

16.815 seconds elapsed.

The output for above file is generated

./MI.M03992_0353.001.FLD0044.PTEN2-17_R1.fastq_input.txt.output.txt

./MI.M03992_0353.001.FLD0051.PTEN2-6_R1.fastq_input.txt
 Total 2 device(s) found.
 Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Comparing patterns in Chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
21.6428 seconds elapsed.
 The output for above file is generated
./MI.M03992_0353.001.FLD0051.PTEN2-6_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0052.PTEN2-18_R1.fastq_input.txt
./Mi.Mosyvz_boss.bul.ripubos.r/ENZ-18_Ki.Mastq_inf
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 12.4609 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0052.PTENZ-18_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0059.PTENZ-7_R1.fastq_input.txt
 Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
 Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
 Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 23.2127 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0059.PTEN2-7_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0060.PTEN2-19_R1.fastq_input.txt
  Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
 Chunk load started.
```

```
devices selected to analyze...
 Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
Z devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 Comparing parterns in chunk #4...
26.3825 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0060.PTEN2-19_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0067.PTEN2-8_R1.fastq_input.txt
Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #1...
 Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
  Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze
 2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
 Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
25.8983 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0067.PTEN2-8_R1.fastq_input.txt.output.txt
  ./MI.M03992_0353.001.FLD0068.PTEN2-20_R1.fastq_input.txt
Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
  Sending data to devices..
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/vifan/MiSeq/myreference//BRCA1.fa...
Reading /Users/vjfan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #4...

Comparing patterns in chunk #4...

18.0021 seconds elapsed.
The output for above file is generated

./MI.M03992_0353.001.FLD0068.PTEN2-20_R1.fastq_input.txt.output.txt

./MI.M03992_0353.001.FLD0075.PTEN2-9_R1.fastq_input.txt
  Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing natterns in chunk #4.
 Finding pattern in chunk #4...

Comparing patterns in chunk #4...

47.2955 seconds elapsed.

The output for above file is generated

./MI.M8992_0353.001.FLD0075.PTEN2-9_R1.fastq_input.txt.output.txt

./MI.M03992_0353.001.FLD0076.PTEN2-21_R1.fastq_input.txt
 Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
  Sending data to devices...
```

```
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/vjfan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
30.6401 seconds elapsed.
 30.0401 Seconds 6149560.

The output for above file is generated
./MI.M03992_0353.001.FLD0076.PTEN2-21_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0083.PTEN2-10_R1.fastq_input.txt
./MI.M03992_0353.001.FLD00083.PTEN2-10_R1.fastq_input Total 2 device(s) found. Loading input file... Reading /Users/yifan/MiSeq/myreference//P53.fa... Sending data to devices... Chunk load started. 2 devices selected to analyze... Finding pattern in chunk #1... Reading /Users/yifan/MiSeq/myreference//PTEN3.fa... Sending data to devices... Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 Using Parties an Column warra. 28.527 seconds elapsed. The output for above file is generated ./MI.M8992_0353.001.FLD0083.PTENZ-10_R1.fastq_input.txt.output.txt ./MI.M93992_0353.001.FLD0084.PTENZ-22_R1.fastq_input.txt
 ./Mi.mosyyz_boss.bdi.riumba4.Fienz-zz_ki.lastq_inj
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/vjfan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze
 2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 32.3898 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0084.PTEN2-22_R1.fastq_input.txt.output.txt
  ./MI.M03992_0353.001.FLD0091.PTEN2-11_R1.fastq_input.txt
Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
  26.7112 seconds elapsed.
```

```
The output for above file is generated ./MI.M03992_0353.001.FLD0091.PTEN2-11_R1.fastq_input.txt.output.txt
 ./MI.M09392_0333.001.FLD0091.PTEN2_23_R1.fastq_input.txt
./MI.M03992_0353.001.FLD0092.PTEN2_23_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
 Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
 Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
21.673 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0092.PTEN2-23_R1.fastq_input.txt.output.txt
(base) Yifans-MBP:Desktop yifans ./runcas.sh
./MI.M03992_0353.001.FLD0006.PTEN3-11_R1.fastq_input.txt
./MI.M0399Z_0333.001.FLD0000.PIEN3-II_KI.TaStq_IN
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
 Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 32.8539 seconds elapsed.
 The output for above file is generated ./MI.M03992_0353.001.FLD0006.PTEN3-11_R1.fastq_input.txt.output.txt
  ./MI.M03992_0353.001.FLD0007.PTEN3-23_R1.fastq_input.txt
 Total 2 device(s) found.
Loading input file...
 Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Einding nattern in chunk #2
 Finding pattern in chunk #2..
 Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Reading /obsers/yllan/miseq/myrele
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 34.4812 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0007.PTEN3-23_R1.fastq_input.txt.output.txt
 ./MI.M03992_0353.001.FLD0014.PTEN3-12_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
 Loading Input Tile...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #3...
```

```
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
40.0208 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0014.PTEN3-12_R1.fastq_input.txt.output.txt
  ./MI.M03992_0353.001.FLD0015.PTEN3-24_R1.fastq_input.txt
Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
 Comparing patterns in chunk #4...
38.7859 seconds elapsed.
The output for above file is generated
  ./MI.M03992_0353.001.FLD0015.PTEN3-24_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0021.PTEN3-1_R1.fastq_input.txt
Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/vjifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
40.6391 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0021.PTEN3-1_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0022.PTEN3-13_R1.fastq_input.txt
Total 2 device(s) found
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/Miseq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
  Total 2 device(s) found.
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
 Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
32.1537 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0022.PTEN3-13_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0023.PTEN3-25_R1.fastq_input.txt
Total 2 devize(s) found
./Mi.mwb.yvz_boss.bul.ri.bub2s.riens-z5_ki.fastq_in
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
  2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
  Chunk load started.
  2 devices selected to analyze...
```

```
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
 Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
  Chunk load started.
2 devices selected to analyze...
  2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
32.4325 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0023.PTEN3-25_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0029.PTEN3-2_R1.fastq_input.txt
./MI.M03992_0353.001.FLD0029.PTEN3-2_R1.fastq_inpt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
  2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
  Sending data to devices...
Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
  Sending data to devices...
Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #4...
Comparing patterns in chunk #4...
22.3649 seconds elapsed.
  22.3049 Seconds elapseu.
The output for above file is generated
./MI.M03992_0353.001.FLD0029.PTEN3-2_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0030.PTEN3-14_R1.fastq_input.txt
 ./MI.M03992_0333.001.FLD0030.PIEN3-14_KI.Tastq_nn
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
  Sending data to devices...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
  Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
39.2008 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0030.PTEN3-14_R1.fastq_input.txt.output.txt
./MI.M03992_0355.001.FLD0037.PTEN3-3_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
  Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
  Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
  Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
  Sending data to devices...
Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
  Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #4...
Comparing patterns in chunk #4...
  33.9922 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0037.PTEN3-3_R1.fastq_input.txt.output.txt
    /MI.M03992_0353.001.FLD0038.PTEN3-15_R1.fastq_input.txt
   Total 2 device(s) found.
  Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
  Sending data to devices.
  Chunk load started.
```

```
devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
Z devices selected to analyze...
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Rending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
35.1418 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0038.PTEN3-15_R1.fastq_input.txt.output.txt
Total 2 device(s) found.
  Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Reading /Users/ylTan/Miseq/myreference//Pb3.Ta...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze
 2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
31.6417 seconds elapsed.
The output for above file is generated
./MI.M83992_0353.001.FLD0045.PTEN3-4_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0046.PTEN3-16_R1.fastq_input.txt
./MI.M03992_0353.001.FLD0046.PTEN3-16_R1.fastq_nn
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
CHUNK load Started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
  Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #4.
 Finding pattern in chunk #4...

Comparing patterns in chunk #4...

14.9867 seconds elapsed.

The output for above file is generated

./MI.M03992_0353.001.FLD0046.PTEN3-16_R1.fastq_input.txt.output.txt

./MI.M03992_0353.001.FLD0053.PTEN3-5_R1.fastq_input.txt
Total 2 device(s) found.

Loading input file...

Reading /Users/yifan/MiSeq/myreference//P53.fa...

Sending data to devices...

Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing natterns in chunk #3.
 Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
  Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
  30.4386 seconds elapsed.
  The output for above file is generated
```

```
./MI.M03992_0353.001.FLD0053.PTEN3-5_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0054.PTEN3-17_R1.fastq_input.txt
./Mi./Mb3942_b335.001.FLD0050.F/EN3-1/_Ki./aStq_in
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
  2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
Comparing patterns in cumin #4...
17.5263 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0054.PTEN3-17_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD00661.PTEN3-6_R1.fastq_input.txt
 ./Mi.Med>YVZ_ed33.001.FLD0061.FTEN3-6_K1.Tastq_inpt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
33.6121 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0061.PTEN3-6_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0062.PTEN3-18_R1.fastq_input.txt
Total 2 device(s) found.
Loading.input.file
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/vjfan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze
  2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #4...
ranuang pattern in chunk #4...
Comparing patterns in chunk #4...
35.8341 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0062.PTEN3-18_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD00669.PTEN3-7_R1.fastq_input.txt
Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
 Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
```

```
Sending data to devices...
 Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
37.9961 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0069.PTEN3-7_R1.fastq_input.txt.output.txt
Total 2 device(s) found.
  Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Readina /Users/yifan/Miseq/myreference//BRCA1.fa...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
24.906 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0070.PTEN3-19_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0077.PTEN3-8_R1.fastq_input.txt
 Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
County load Started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
39.916 seconds elapsed.
The output for above file is generated
./MI.M83992_0353.001.FLD0077.PTEN3-8_R1.fastq_input.txt.output.txt
./MI.M83992_0353.001.FLD0078.PTEN3-20_R1.fastq_input.txt
./MI.M03992_0353.001.FLD0078.PTEN3-20_R1.fastq_inprotal 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 Comparing patterns in count #4...
32.0102 seconds elapsed.
The output for above file is generated
./MI.M8992_0353.001.FLD0078.PTEN3-20_R1.fastq_input.txt.output.txt
./MI.M9392_0353.001.FLD0085.PTEN3-9_R1.fastq_input.txt
 ./Mi.med>Y2_033.001.Flowboo.FleN3-Y_K1.Tastq_Inp
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
  2 devices selected to analyze...
  Finding pattern in chunk #2
 Comparing patterns in chunk #2...
```

```
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
  39.1252 seconds elapsed.
  37.1252 Seconds Elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0085.PTEN3-9_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0086.PTEN3-21_R1.fastq_input.txt
 ./Mi.mwayyz_b33.001.Flb0000.FlEN3-21_Ki.faStq_in
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
  Sending data to devices...
 2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 40.9213 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0086.PTEN3-21_R1.fastq_input.txt.output.txt
 ./MI.M03992_0333.001.FLD00093.PTEN3-21_RI.Tastq_input.txt
./MI.M03992_0353.001.FLD00093.PTEN3-10_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading //Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
 Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
Count load started.

2 devices selected to analyze...

Finding pattern in chunk #4...

Comparing patterns in chunk #4...

41.9879 seconds elapsed.

The output for above file is generated

./MI.M03992_0353.001.FLD0003.PTEN3_10_R1.fastq_input.txt.output.txt
    /MI.M03992_0353.001.FLD0094.PTEN3-22_R1.fastq_input.txt
   Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Reading /users/yllan/miseq/mmyrere
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
County load Started.

Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
40.3721 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0094.PTEN3-22_R1.fastq_input.txt.output.txt
(base) Yifans-MBP:Desktop yifan$ ./runcas.sh
./MI.M03992_0353.001.FLD0001.p53-1_R1.fastq_input.txt
./Mi./Mb3972_b335.001.Filoe001.ps3-1_Ri.lastq_input
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
  Chunk load started.
  2 devices selected to analyze...
```

```
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 The output for above file is generated

./MI.M03992_0353.001.FLD0001.p53-1_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0002.p53-13_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
 Clouds Stated.

2 devices selected to analyze...
Finding pattern in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 73.1169 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0002.p53-13_R1.fastq_input.txt.output.txt
 ./MI.M03992_0353.001.FLD0002.pb3-l3_KI.Tastq_Input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices..
Chunk load started.
 Clumk load stated.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...

78.2259 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0003.p53-25_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0009.p53-2_R1.fastq_input.txt
Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 Comparing patterns in chunk #4...
76.5682 seconds elapsed.
The output for above file is generated
  ./MI.M03992_0353.001.FLD0009.p53-2_R1.fastq_input.txt.output.txt
```

```
/MI.M03992_0353.001.FLD0010.p53-14_R1.fastq_input.txt
  Total 2 device(s) found.
 Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
Z devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
 Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #4.
Finding pattern in chunk #4...

Comparing patterns in chunk #4...

25.247 seconds elapsed.

The output for above file is generated
./MI.M03992_0353.001.FLD0010.p53-14_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0017.p53-3_R1.fastq_input.txt

Total 2 device(s) found.
Loading input file...

Reading /Users/yifan/MiSeq/myreference//P53.fa...

Sending data to devices...

Chunk load started.

2 devices selected to analyze...
 2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
 Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #3...
 Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
  75.1134 seconds elapsed.
The output for above file is generated
./MI.M8992_0853.001.FLD0017.p53-3_R1.fastq_input.txt.output.txt
./MI.M03992_0853.001.FLD0018.p53-15_R1.fastq_input.txt
./MI.M03992_0353.001.FLD0018.p53-15_R1.fastq_input.tTotal 2 device(s) found.
Loading input file...
Reading /Users/yifan/Miseq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
CHUNK load Started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
  Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #3..
 Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 27.0329 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0018.p53-15_R1.fastq_input.txt.output.txt
 ./MI.M03992_0353.001.FLD0025.p53-4_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
 Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing natterns in chunk #2.
 Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Z devices selected to analyzz...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
  Sending data to devices...
```

```
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 Compairing patterns in chains #7...
15.6372 seconds elapsed.
The output for above file is generated
./MI.M89992_0353.001.FLD0025.p53-4_R1.fastq_input.txt.output.txt
./MI.M93992_0353.001.FLD0026.p53-16_R1.fastq_input.txt
 ./Mi.med>972_0335.001.FLD0020.pb3-16_Ki.faStq_inpu
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/vjfan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Z devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
11.8202 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0026.p53-16_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0033.p53-5_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
  2 devices selected to analyze...
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/vjifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
35.5348 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0033.p53-5_R1.fastq_input.txt.output.txt
Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/vjfan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze
  2 devices selected to analyze...
 Finding pattern in chunk #2...
Comparing patterns in chunk #2...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
County load Started.

Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...

10.3534 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0034.p53-17_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0041.p53-6_R1.fastq_input.txt
  Total 2 device(s) found.
 lotal 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #2...
Comparing patterns in chunk #2...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
```

```
Sending data to devices...
 Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Finding nattern in chunk #4...
 2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
25.7717 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0041.p53-6_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0042.p53-18_R1.fastq_input.txt
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
 2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
 Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 Z devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
14.3696 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0042.p53-18_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0049.p53-7_R1.fastq_input.txt
./MI.M03992_0353.001.HLD0049.pb3-/_KI.fastq_input
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
CHUNK load started.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
County load Started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
  64.7442 seconds elapsed.
 04.7442 Seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0049.p53-7_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0050.p53-19_R1.fastq_input.txt
 ./Mi.MedyYZ_e335.001.FLD0000.pb3-19_K1.Tastq_inpu
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.
CHUNK load Started.

2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/vjfan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
 Chunk load started.
2 devices selected to analyze...
 Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/Miseq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
25.737 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0050.p53-19_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0057.p53-8_R1.fastq_input.txt
Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.
  2 devices selected to analyze...
  Finding pattern in chunk #1
 Comparing patterns in chunk #1...
```

```
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Z devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
  2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
120.291 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0057.p53-8_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0058.p53-20_R1.fastq_input.txt
Total 2 device(s) found.
 Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
  Sending data to devices..
 2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
21.805 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0058.p53-20_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0065.p53-9_R1.fastq_input.txt
Total 2 device(s) found.
 lotal 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
 Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.

2 devices selected to analyze...
Einding nattern in chunk #4.
Z devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
55.955 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0065.p53-9_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0066.p53-21_R1.fastq_input.txt
 Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
 Reading /Osers/yllan/Miseq/mmyrere
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
County load Started.

Z devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
  Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
26.4894 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0066.p53-21_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD00673.p53-10_R1.fastq_input.txt
Tatal 2 devise(r) found
   Total 2 device(s) found.
```

```
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
 2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/vjifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
  Chunk load started.
 Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 Value of the seconds elapsed.

The output for above file is generated.

VMI.M03992_0353.001.FLD0073.p53-10.R1.fastq_input.txt.output.txt.

VMI.M03992_0353.001.FLD0074.p53-22_R1.fastq_input.txt
  Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
  Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
  Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
 Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
  Sending data to devices...
Chunk load started.
2 devices selected to analyze...
  Finding pattern in chunk #4...
Comparing patterns in chunk #4...
 Comparing patterns in commun.

69.2498 seconds elapsed.

The output for above file is generated

./MI.M03992_0353.001.FLD0074.p53-22_R1.fastq_input.txt.output.txt

./MI.M03992_0353.001.FLD0081.p53-11_R1.fastq_input.txt
    Total 2 device(s) found.
  Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
 Chunk load started.

2 devices selected to analyze...

Finding pattern in chunk #1...

Comparing patterns in chunk #1...

Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...

Sending data to devices...
Reading /Users/ylran/Miseq/myrererence//PIEN3.Ta...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing pattern in chunk #4...
55.8368 seconds elapsed.
  Comparing parterns in counk #4...
55.8368 seconds elapsed.
The output for above file is generated
./MI.M83992_0353.001.FLD0081.p53-11_R1.fastq_input.txt.output.txt
./MI.M80992_0353.001.FLD0082.p53-23_R1.fastq_input.txt
Total 2 device(s) found.
  Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
Sending data to devices...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/Miseq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #2...
Comparing patterns in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
   2 devices selected to analyze...
  Finding pattern in chunk #3...
Comparing patterns in chunk #3...
  Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
   Chunk load started.
   2 devices selected to analyze...
```

```
Finding pattern in chunk #4.
  Finding pattern in chunk #4...

26.7625 seconds elapsed.

The output for above file is generated.

/MI.M03992_0353.001.FLD0082.p53-23_R1.fastq_input.txt.output.txt./MI.M03992_0353.001.FLD0089.p53-12_R1.fastq_input.txt
  ./MI.M03992_0353.001.FLD0089.p53-12_R1.fastq_input.t
Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/Miseq/myreference//P53.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding patterns in chunk #2...
Comparing patterns in chunk #2...
Comparing pattern in chunk #2...
Comparing pattern in chunk #2...
Reading /Users/yifan/Miseq/myreference//BRCA1.fa...
Comparing pattern in chunk #2...
Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
Comparing patterns in chunk #4...
Comparing patterns in chunk #4...
As.9083 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0099.p53-12_R1.fastq_input.txt.output.txt
./MI.M03992_0353.001.FLD0099.p53-24_R1.fastq_input.txt
Total 2 device(s) found.
    Total 2 device(s) found.
Loading input file...
Reading /Users/yifan/MiSeq/myreference//P53.fa...
    Sending data to devices...
Chunk load started.
2 devices selected to analyze...
  Z devices selected to analyze...
Finding pattern in chunk #1...
Comparing patterns in chunk #1...
Reading /Users/yifan/MiSeq/myreference//PTEN3.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
   Finding pattern in chunk #2...
Comparing patterns in chunk #2...
   Reading /Users/yifan/MiSeq/myreference//BRCA1.fa...
Sending data to devices...
Chunk load started.
  Chunk load started.

2 devices selected to analyze...
Finding pattern in chunk #3...
Comparing patterns in chunk #3...
Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
  Reading /Users/yifan/MiSeq/myreference//PTEN2.fa...
Sending data to devices...
Chunk load started.
2 devices selected to analyze...
Finding pattern in chunk #4...
Comparing patterns in chunk #4...
24.3197 seconds elapsed.
The output for above file is generated
./MI.M03992_0353.001.FLD0090.p53-24_R1.fastq_input.txt.output.txt
(base) Yifans-MBP:Desktop yifan$
```