# HW5(1part +2part ).Aigerim

April 16, 2020

[1]: ```
ls
```

```
HW1   HW2   HW3   HW4   HW4.Aigerim.ipynb   HW5.Aigerim.ipynb   shared
```

[2]: ```
mkdir HW5
```

[3]: ```
ls
```

```
HW1   HW2   HW3   HW4   HW4.Aigerim.ipynb   HW5   HW5.Aigerim.ipynb   shared
```

[4]: ```
pwd
```

```
/home/jupyter-aigerimunisat
```

[5]: ```
cd HW5
```

[6]: ```
ls
```

```
HW5.Aigerim.ipynb
```

[7]: ```
touch a.txt
```

[8]: ```
touch b.txt
touch a.png
```

[9]: ```
ls
```

```
a.png   a.txt   b.txt   HW5.Aigerim.ipynb
```

[14]: ```
echo my name is Aigerim a.txt
```

```
my name is Aigerim a.txt
```

[17]: ```
echo Altayeva Aigerim > a.txt
echo my name is Aigerim >> a.txt
```

[18]: ```
cat a.txt
```

```
Altayeva Aigerim
my name is Aigerim
```

[19]: `cat b.txt`

```
Fred apples 20
Susy oranges 5
Susy oranges 5
Susy oranges 5
Mark watermellons 12
Robert pears 4
Terry oranges 9
Lisa peaches 7
Susy oranges 12
Mark grapes 39
Mark grapes 39
Anne mangoes 7
Greg pineapples 3
Oliver rockmellons 2
Betty limes 14
```

[20]: `cat b.txt`

```
Fred apples 20
Susy oranges 5
Susy oranges 5
Susy oranges 5
Mark watermellons 12
Robert pears 4
Terry oranges 9
Lisa peaches 7
Susy oranges 12
Mark grapes 39
Mark grapes 39
Anne mangoes 7
Greg pineapples 3
Oliver rockmellons 2
Betty limes 14
Robert pears 4
Terry oranges 9
Lisa peaches 7
Susy oranges 12
Mark grapes 39
Mark grapes 39
Anne mangoes 7
Greg pineapples 3
Oliver rockmellons 2
Betty limes 14
```

```
[22]: head b.txt
```

```
Fred apples 20
Susy oranges 5
Susy oranges 5
Susy oranges 5
Mark watermellons 12
Robert pears 4
Terry oranges 9
Lisa peaches 7
Susy oranges 12
Mark grapes 39
```

```
[23]: head -20 b.txt
```

```
Fred apples 20
Susy oranges 5
Susy oranges 5
Susy oranges 5
Mark watermellons 12
Robert pears 4
Terry oranges 9
Lisa peaches 7
Susy oranges 12
Mark grapes 39
Mark grapes 39
Anne mangoes 7
Greg pineapples 3
Oliver rockmellons 2
Betty limes 14
Robert pears 4
Terry oranges 9
Lisa peaches 7
Susy oranges 12
Mark grapes 39
```

```
[24]: head -2 b.txt
```

```
Fred apples 20
Susy oranges 5
```

```
[25]: tail b.txt
```

```
Robert pears 4
Terry oranges 9
Lisa peaches 7
Susy oranges 12
Mark grapes 39
```

```
Mark grapes 39
Anne mangoes 7
Greg pineapples 3
Oliver rockmellons 2
Betty limes 14
```

[26]: `tail -18 b.txt`

```
Lisa peaches 7
Susy oranges 12
Mark grapes 39
Mark grapes 39
Anne mangoes 7
Greg pineapples 3
Oliver rockmellons 2
Betty limes 14
Robert pears 4
Terry oranges 9
Lisa peaches 7
Susy oranges 12
Mark grapes 39
Mark grapes 39
Anne mangoes 7
Greg pineapples 3
Oliver rockmellons 2
Betty limes 14
```

[27]: `tail -5 b.txt`

```
Mark grapes 39
Anne mangoes 7
Greg pineapples 3
Oliver rockmellons 2
Betty limes 14
```

[28]: `sort a.txt`

```
Altayeva Aigerim
my name is Aigerim
```

[29]: `sort b.txt`

```
Anne mangoes 7
Anne mangoes 7
Betty limes 14
Betty limes 14
Fred apples 20
Greg pineapples 3
```

```
Greg pineapples 3
Lisa peaches 7
Lisa peaches 7
Mark grapes 39
Mark grapes 39
Mark grapes 39
Mark grapes 39
Mark watermellons 12
Oliver rockmellons 2
Oliver rockmellons 2
Robert pears 4
Robert pears 4
Susy oranges 12
Susy oranges 12
Susy oranges 5
Susy oranges 5
Susy oranges 5
Terry oranges 9
Terry oranges 9
```

[30]: `nl a.txt`

```
     1  Altayeva Aigerim
     2  my name is Aigerim
```

[31]: `nl b.txt`

```
     1  Fred apples 20
     2  Susy oranges 5
     3  Susy oranges 5
     4  Susy oranges 5
     5  Mark watermellons 12
     6  Robert pears 4
     7  Terry oranges 9
     8  Lisa peaches 7
     9  Susy oranges 12
    10  Mark grapes 39
    11  Mark grapes 39
    12  Anne mangoes 7
    13  Greg pineapples 3
    14  Oliver rockmellons 2
    15  Betty limes 14
    16  Robert pears 4
    17  Terry oranges 9
    18  Lisa peaches 7
    19  Susy oranges 12
    20  Mark grapes 39
    21  Mark grapes 39
```

```
    22  Anne mangoes 7
    23  Greg pineapples 3
    24  Oliver rockmellons 2
    25  Betty limes 14
```

[33]: `nl -s '.' a.txt`

```
     1.Altayeva Aigerim
     2.my name is Aigerim
```

[37]: `nl -s ')    ' -w 15 b.txt`

```
            1)    Fred apples 20
            2)    Susy oranges 5
            3)    Susy oranges 5
            4)    Susy oranges 5
            5)    Mark watermellons 12
            6)    Robert pears 4
            7)    Terry oranges 9
            8)    Lisa peaches 7
            9)    Susy oranges 12
           10)    Mark grapes 39
           11)    Mark grapes 39
           12)    Anne mangoes 7
           13)    Greg pineapples 3
           14)    Oliver rockmellons 2
           15)    Betty limes 14
           16)    Robert pears 4
           17)    Terry oranges 9
           18)    Lisa peaches 7
           19)    Susy oranges 12
           20)    Mark grapes 39
           21)    Mark grapes 39
           22)    Anne mangoes 7
           23)    Greg pineapples 3
           24)    Oliver rockmellons 2
           25)    Betty limes 14
```

[38]: `nl -s '* ' -w 10 a.txt`

```
         1* Altayeva Aigerim
         2* my name is Aigerim
```

[39]: `cut -f 1 -d ' ' b.txt`

```
Fred
Susy
Susy
```

```
Susy
Mark
Robert
Terry
Lisa
Susy
Mark
Mark
Anne
Greg
Oliver
Betty
Robert
Terry
Lisa
Susy
Mark
Mark
Anne
Greg
Oliver
Betty
```

[40]: 
```
cut -f 1,2 -d ' ' b.txt
```

```
Fred apples
Susy oranges
Susy oranges
Susy oranges
Mark watermellons
Robert pears
Terry oranges
Lisa peaches
Susy oranges
Mark grapes
Mark grapes
Anne mangoes
Greg pineapples
Oliver rockmellons
Betty limes
Robert pears
Terry oranges
Lisa peaches
Susy oranges
Mark grapes
Mark grapes
Anne mangoes
Greg pineapples
```

```
Oliver rockmellons
Betty limes
```

[41]: `wc b.txt`

```
 24   75 402 b.txt
```

[42]: `wc -l b.txt`

```
24 b.txt
```

[43]: `wc -c b.txt`

```
402 b.txt
```

[44]: `wc -l b.txt`

```
24 b.txt
```

[45]: `wc a.txt`

```
 2   6 36 a.txt
```

[46]: `whoami`

```
jupyter-aigerimunisat
```

[47]: `cat a.txt`

```
Altayeva Aigerim
my name is Aigerim
```

[48]: `tac a.txt`

```
my name is Aigerim
Altayeva Aigerim
```

[49]: `cat b.txt`

```
Fred apples 20
Susy oranges 5
Susy oranges 5
Susy oranges 5
Mark watermellons 12
Robert pears 4
Terry oranges 9
Lisa peaches 7
Susy oranges 12
Mark grapes 39
```

```
Mark grapes 39
Anne mangoes 7
Greg pineapples 3
Oliver rockmellons 2
Betty limes 14
Robert pears 4
Terry oranges 9
Lisa peaches 7
Susy oranges 12
Mark grapes 39
Mark grapes 39
Anne mangoes 7
Greg pineapples 3
Oliver rockmellons 2
Betty limes 14
```

[50]: `tac b.txt`

```
Betty limes 14Oliver rockmellons 2
Greg pineapples 3
Anne mangoes 7
Mark grapes 39
Mark grapes 39
Susy oranges 12
Lisa peaches 7
Terry oranges 9
Robert pears 4
Betty limes 14
Oliver rockmellons 2
Greg pineapples 3
Anne mangoes 7
Mark grapes 39
Mark grapes 39
Susy oranges 12
Lisa peaches 7
Terry oranges 9
Robert pears 4
Mark watermellons 12
Susy oranges 5
Susy oranges 5
Susy oranges 5
Fred apples 20
```

[56]: 
```
cat a.txt
head -1 a.txt
```

```
Altayeva Aigerim
my name is Aigerim
```

```
Altayeva Aigerim
```

[85]: `#egrep command, regular expression`

[86]: `cat a.txt`

```
Altayeva Aigerim
my name is Aigerim
```

[87]: `egrep 'Aigerim' a.txt`

```
Altayeva Aigerim
my name is Aigerim
```

[88]: `egrep 'name' a.txt`

```
my name is Aigerim
```

[89]: `egrep 'n' a.txt`

```
my name is Aigerim
```

[90]: `cat a.txt`

```
Altayeva Aigerim
my name is Aigerim
Susy oranges 5
Susy oranges 5
Mark watermellons 12
Robert pears 4
Terry oranges 9
Lisa peaches 7
Susy oranges 12
Mark grapes 39
Mark grapes 39
Anne mangoes 7
Greg pineapples 3
Oliver rockmellons 2
Betty limes 14
Unisat super girls 20
```

[91]: `egrep 'Unisat' a.txt`

```
Unisat super girls 20
```

[93]: `egrep [ril] a.txt`

```
Altayeva Aigerim
my name is Aigerim
```

```
     Susy oranges 5
     Susy oranges 5
     Mark watermellons 12
     Robert pears 4
     Terry oranges 9
     Lisa peaches 7
     Susy oranges 12
     Mark grapes 39
     Mark grapes 39
     Greg pineapples 3
     Oliver rockmellons 2
     Betty limes 14
     Unisat super girls 20
```

[111]: `egrep {5,*} a.txt`

```
     a.txt:Susy oranges 5
     a.txt:Susy oranges 5
     b.txt:Susy oranges 5
     b.txt:Susy oranges 5
     b.txt:Susy oranges 5
     HW5(part 1).Aigerim.ipynb:        "HW1  HW2  HW3  HW4  HW4.Aigerim.ipynb
     HW5.Aigerim.ipynb  shared\n"
     HW5(part 1).Aigerim.ipynb:     "mkdir HW5"
     HW5(part 1).Aigerim.ipynb:        "HW1  HW2  HW3  HW4  HW4.Aigerim.ipynb  HW5
     HW5.Aigerim.ipynb  shared\n"
     HW5(part 1).Aigerim.ipynb:    "execution_count": 5,
     HW5(part 1).Aigerim.ipynb:     "cd HW5"
     HW5(part 1).Aigerim.ipynb:       "HW5.Aigerim.ipynb\n"
     HW5(part 1).Aigerim.ipynb:       "a.png  a.txt  b.txt  HW5.Aigerim.ipynb\n"
     HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
     HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
     HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
     HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
     HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
     HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
     HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
     HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
     HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
     HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
     HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
     HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
     HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n"
     HW5(part 1).Aigerim.ipynb:    "execution_count": 25,
     HW5(part 1).Aigerim.ipynb:     "tail -5 b.txt"
     HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
     HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
     HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
```

```
HW5(part 1).Aigerim.ipynb:          "     2\tSusy oranges 5\n",
HW5(part 1).Aigerim.ipynb:          "     3\tSusy oranges 5\n",
HW5(part 1).Aigerim.ipynb:          "     4\tSusy oranges 5\n",
HW5(part 1).Aigerim.ipynb:          "     5\tMark watermellons 12\n",
HW5(part 1).Aigerim.ipynb:          "    15\tBetty limes 14\n",
HW5(part 1).Aigerim.ipynb:          "    25\tBetty limes 14\n"
HW5(part 1).Aigerim.ipynb:          "            2)    Susy oranges 5\n",
HW5(part 1).Aigerim.ipynb:          "            3)    Susy oranges 5\n",
HW5(part 1).Aigerim.ipynb:          "            4)    Susy oranges 5\n",
HW5(part 1).Aigerim.ipynb:          "            5)    Mark watermellons 12\n",
HW5(part 1).Aigerim.ipynb:          "           15)    Betty limes 14\n",
HW5(part 1).Aigerim.ipynb:          "           25)    Betty limes 14\n"
HW5(part 1).Aigerim.ipynb:        "nl -s ')    ' -w 15 b.txt"
HW5(part 1).Aigerim.ipynb:        " 24  75 402 b.txt\n"
HW5(part 1).Aigerim.ipynb:      "execution_count": 45,
HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
HW5(part 1).Aigerim.ipynb:      "execution_count": 50,
HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
HW5(part 1).Aigerim.ipynb:      "execution_count": 56,
HW5(part 1).Aigerim.ipynb:      "execution_count": 85,
HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n",
HW5(part 1).Aigerim.ipynb:        "Susy oranges 5\n"
HW5(part 1).Aigerim.ipynb:      "egrep '5' a.txt"
HW5(part2).Aigerim.ipynb:       " a.png   a.txt   b.txt  'HW5(part
1).Aigerim.ipynb'  'HW5(part2).Aigerim.ipynb'\n"
HW5(part2).Aigerim.ipynb:        "Susy oranges 5\n",
HW5(part2).Aigerim.ipynb:        "Susy oranges 5\n",
HW5(part2).Aigerim.ipynb:        "Susy oranges 5\n",
Untitled.ipynb:       " a.png   b.txt
'HW5(part2).Aigerim.ipynb'\n",
Untitled.ipynb:       " a.txt  'HW5(part 1).Aigerim.ipynb'   Untitled.ipynb\n"
Untitled.ipynb:        "'/home/jupyter-aigerimunisat/HW5'"
Untitled.ipynb:       "Susy oranges 5\n",
Untitled.ipynb:       "Susy oranges 5\n",
Untitled.ipynb:       "Susy oranges 5\n",
Untitled.ipynb:       "Susy oranges 5\n",
Untitled.ipynb:       "Susy oranges 5\n",
Untitled.ipynb:       "Susy oranges 5\n",
a.txt:Susy oranges 5
a.txt:Susy oranges 5
```

```
[118]: egrep [ob] a.txt
```

```
Susy oranges 5
Susy oranges 5
Mark watermellons 12
Robert pears 4
Terry oranges 9
Susy oranges 12
Anne mangoes 7
Oliver rockmellons 2
```

```
[125]: egrep '[ob]{2,}' a.txt
```

```
Robert pears 4
```

```
[126]: egrep '[aeiou]{2,}' a.txt
```

```
Robert pears 4
Lisa peaches 7
Anne mangoes 7
Greg pineapples 3
```

```
[127]: cat a.txt
```

```
Altayeva Aigerim
my name is Aigerim
Susy oranges 1
Susy oranges 1
Mark watermellons 22
Robert pears 5
Terry oranges 4
Lisa peaches 7
Susy oranges 10
Mark grapes 55
Mark grapes 55
Anne mangoes 7
Greg pineapples 3
Oliver rockmellons 2
Betty limes 14
Unisat super girls 20
```

```
[128]: egrep '[1]' a.txt
```

```
Susy oranges 1
Susy oranges 1
Susy oranges 10
Betty limes 14
```

```
[131]: egrep 'mellons' a.txt
```

Mark watermellons 22
Oliver rockmellons 2

```
[132]: egrep -n 'mellons' a.txt
```

5:Mark watermellons 22
14:Oliver rockmellons 2

```
[133]: egrep -c 'mellons' a.txt
```

2

```
[134]: egrep '.w' a.txt
```

Mark watermellons 22

```
[141]: egrep '*U' a.txt
```

Unisat super girls 20

```
[142]: egrep '?Altayeva' a.txt
```

Altayeva Aigerim

```
[ ]: egrep '2.' a.txt
```

```
[1]: ls
```

HW1   HW2   HW3   HW4   HW4.Aigerim.ipynb   HW5   shared