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LINUX OS & SCRIPTING LAB

M.E – CYBER SECURITY

More on Grep

1. Print all the lines having the word "pattern".

```
└─$ grep "Pattern" a.txt  
Pattern3 is useful for searching.
```

2. Pick out the blank lines in the file

```
└─$ grep -E '^$' a.txt
```

3. Count total number of empty lines in the file.

```
└─$ grep -c '^$' a.txt  
17
```

4. Print the line which have both “Sir and Madam”.

```
└─$ grep -E "Sir.*Madam|Madam.*Sir" a.txt  
  
Dear Sir and Madam, we would like to inform you.  
Sir and Madam should both be addressed.
```

5. pick out lines with “pattern1” “pattern2” or “pattern3”. (use the alternator |)

```
└─$ grep -E "pattern1|pattern2|pattern3" a.txt  
  
pattern1 is found here.  
This line includes pattern2.  
pattern1, pattern2, and pattern3 should match with alternation.
```

6. pick out lines that have at least two p's followed by any number of letters followed by 'ore'. The p's do not have to be next to each other.

```
└─$ grep -E "p.*p.*ore" a.txt  
  
This line has pepper and is also properstore for tests.  
persistence ore, explore and adore.
```

7. pick out all the lines with v, z or l in them

```
└─$ grep -E "[vz]" a.txt  
Success is no accident. It is hard work, perseverance, learning, studying, sacrifice and most of all, love of what you are doing or learning to do.  
pattern matching is a key technique.  
pattern1 is found here.  
This line includes pattern2.  
pattern3 is useful for searching.  
pattern has been mentioned in this line.  
Success is no accident. It is hard work, perseverance, learning, studying, sacrifice and most of all, love of what you are doing or learning to do.  
Dear Sir and Madam, we would like to inform you.  
This line has pepper and is also properstore for tests.  
This line has no punctuation  
This line ends with a dash-  
This line does not.  
Felix and bizarre incidents were reported.  
There is another example line.  
Finding ferns and flowers.  
First and foremost.  
And the fortune in failures.  
Success is the sum of small efforts - repeated day in and day out.  
Success is achieved by those with discipline and dedication.  
Sir and Madam should both be addressed.  
rav is not here.  
persistence ore, explore and adore.  
Another line to test character limits beyond 40 characters indeed. Just another line.  
Lorem ipsum dolor sit amet, consectetur adipiscing elit.  
What a wonderful world of wonder and wisdom.  
This line has an uppercase letter but not at the start.  
pattern1, pattern2, and pattern3 should match with alternation.  
There are empty lines above and below.
```

8. pick out all the lines that do not start with an uppercase letter.

```

└─$ grep -E "^[^A-Z]" a.txt

pattern matching is a key technique.
pattern1 is found here.
pattern has been mentioned in this line.
pattern pattern pattern
there is another example line.
rav is not here.
persistence ore, explore and adore.
this Line has an Uppercase letter but not at the start.
pattern1, pattern2, and pattern3 should match with alternation.
there are empty lines above and below.
---
```

9. pick out all the lines that end with a dash –

```

└─$ grep -E "\-$" a.txt
```

```

This line ends with a dash-
---
```

10. pick out all the words that end with ore

```

└─$ grep -o "\b\w*ore\b" a.txt
```

```

properstore
ore
explore
adore
```

11. pick out all the words that start with f or F

```

└─$ grep -o "\b[fF]\w*" a.txt
```

```

found
for
for
Finding
ferns
flowers
First
foremost
Find
fortune
failures
```

12. pick out lines that uses first letter alliteration - starting two words with the same letter.

```

└─$ grep -E "\b(\w)\w*\s+\1\w*" a.txt
pattern pattern pattern
Dear Sir and Madam, we would like to inform you.
Sir and Madam should both be addressed.
persistence ore, explore and adore.
Another line to test character limits beyond 40 characters indeed. Just another line.
What a wonderful world of wonder and wisdom.
there are empty lines above and below.

```

13. determine how many times contains the word "pattern".

```

└─$ grep -o "pattern" a.txt | wc -l
10

```

14. to pick out lines with at least 40 characters:

```

└─$ grep -E '^(.{40})$' a.txt
Success is no accident. It is hard work, perseverance, learning, studying, sacrifice and most of all, love of what you are doing or learning to do.
pattern has been mentioned in this line.
Success is no accident. It is hard work, perseverance, learning, studying, sacrifice and most of all, love of what you are doing or learning to do.
Dear Sir and Madam, we would like to inform you.
This line has pepper and is also properstore for tests.
Hexing and bizarre incidents were reported.
Success is the sum of small efforts - repeated day in and day out.
Success is achieved by those with discipline and dedication.
Another line to test character limits beyond 40 characters indeed. Just another line.
Lorem ipsum dolor sit amet, consectetur adipiscing elit.
What a wonderful world of wonder and wisdom.
this Line has an Uppercase letter but not at the start.
pattern1, pattern2, and pattern3 should match with alternation.

```

15. to pick out lines with no punctuation

```

└─$ grep -E '^[^[:punct:]]+$' a.txt
Success
pattern pattern pattern
This line has no punctuation

```

16. to pick out lines with an uppercase letter other than the first character. (The first character on the line does not count.)

```

└─$ grep -E '^.\\*[A-Z]' a.txt

```

17. To pick out lines without rav

```
L$ grep -v "rav" a.txt
```

Success is no accident. It is hard work, perseverance, learning, studying, sacrifice and most of all, love of what you are doing or learning to do.

pattern matching is a key technique.

pattern1 is found here.

This line includes pattern2.

Pattern3 is useful for searching.

pattern has been mentioned in this line.

Success is no accident. It is hard work, perseverance, learning, studying, sacrifice and most of all, love of what you are doing or learning to do.

Success

pattern pattern pattern

Dear Sir and Madam, we would like to inform you.

This line has pepper and is also properstore for tests.

This line has no punctuation

This line ends with a dash-

This line does not.

Vexing and bizarre incidents were reported.

there is another example line.

Finding ferns and flowers.

First and foremost.

Find the fortune in failures.

Success is the sum of small efforts - repeated day in and day out.