

Print a file, skipping the first X lines, in Bash [duplicate]

Asked 11 years, 10 months ago Active 2 days ago Viewed 439k times



585



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[How can I remove the first line of a text file using bash/sed script?](#) (16 answers)

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112

I have a very long file which I want to print, skipping the first 1,000,000 lines, for example.



I looked into the cat man page, but I did not see any option to do this. I am looking for a command to do this or a simple Bash program.

linux bash printing skip

edited Jul 23 at 15:16



Matthias Braun

23k 16 107 141

asked Mar 3 '09 at 2:19



Eduardo

16.4k 19 58 71

13 Answers

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You'll need tail. Some examples:

951



```
$ tail great-big-file.log
< Last 10 lines of great-big-file.log >
```



If you really need to SKIP a particular number of "first" lines, use



```
$ tail -n +<N+1> <filename>
< filename, excluding first N lines. >
```

That is, if you want to skip N lines, you start printing line N+1. Example:

```
$ tail -n +11 /tmp/myfile
< /tmp/myfile, starting at line 11, or skipping the first 10 lines. >
```

If you want to just see the last so many lines, omit the "+":



edited Dec 14 '18 at 23:27



rogerdpack

47.9k 30 204 322

answered Mar 3 '09 at 2:24



SingleNegationEliminati on

133k 25 242 282

67 Or "tail --lines=+<LinesToSkip> ..." for the readable-commands crowd :-). – [paxdiablo](#) Mar 3 '09 at 2:34

30 in centos 5.6 tail -n +1 shows the whole file and tail -n +2 skips first line. strange. The same for tail -c +<num> . – [NickSoft](#) Sep 1 '11 at 10:23

14 @JoelClark No, @NickSoft is right. On Ubuntu, it's tail -n +<start number> , I just tested it. So tail -n +1 won't skip anything, but start from the first line instead. – [Andres F.](#) Aug 22 '12 at 14:36

22 I can confirm that tail -n +2 is required to skip the first line on Darwin/Mac OS X as well. – [morgant](#) Mar 24 '14 at 16:40

3 this must be outdated, but, tail -n+2 OR tail -n +2 works, as with all short commands using getopt, you can run the parameter right next to it's switch, providing that the switch is the last in the group, obviously a command like tail -nv+2 would not work, it would have to be tail -vn+2. if you dont believe me try it yourself. – [osirisgothra](#) May 3 '14 at 11:35

Easiest way I found to remove the first ten lines of a file:

125

```
$ sed 1,10d file.txt
```

In the general case (where x is the number of initial lines to delete, credit to commenters and editors for this):

```
$ sed 1,Xd file.txt
```

edited 2 days ago

answered Oct 17 '12 at 7:17



David Parks

24.8k 39 141 254

13 In the more general case, you'd have to use sed 1,Xd where X is the number of initial lines to delete, with X greater than 1. – [Acumenus](#) Dec 24 '13 at 0:10

1 This makes more sense if you don't know how long the file is and don't want to tell tail to print the last 100000000 lines. – [springloaded](#) Aug 29 '18 at 15:06

@springloaded if you need to know the number of lines in the file, 'wc -l' will easily give it to you – [Mike Pennington](#) Jun 10 at 11:21

If you have GNU tail available on your system, you can do the following:

104

```
tail -n +10000001 huge-file.log
```

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If the first character of K (the number of bytes or lines) is a '+', print beginning with the Kth item from the start of each file.

Thus, as noted in the comment, putting +1000001 starts printing with the first item after the first 1,000,000 lines.

edited Jan 10 '16 at 18:51



[MERose](#)

2,922 5 36 62

answered Mar 3 '09 at 2:28



[Eddie](#)

50.5k 21 115 141

Works for BSD tail too (OS X) – [Lloeki](#) Nov 17 '16 at 13:59

A less verbose version with AWK:

32

```
awk 'NR > 1e6' myfile.txt
```

But I would recommend using integer numbers.



edited Dec 25 '13 at 15:08

answered Apr 26 '13 at 14:31



[newtover](#)

27.6k 11 75 84

7 useful if you need to skip some lines in the middle of the file, e.g., `awk '!(5 < NR && NR < 10)'` – [arekolek](#) Jul 28 '16 at 12:24

If you want to skip first two line:

23

```
tail -n +3 <filename>
```

If you want to skip first x line:



```
tail -n +$(x+1) <filename>
```

edited Apr 13 at 2:29



[Peter Mortensen](#)

27.2k 21 93 123

answered Jul 9 '13 at 18:10



[saipraneeth](#)

347 2 2

2 This is somewhat misleading because someone may interpret `(x+1)` literally. For example, for `x=2`, they may tune either `(2+1)` or even `(3)` neither of which would work. A better way to write it might be `To`

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Use the [sed](#) [delete](#) [command](#) with a [range address](#). For example:

18 `sed 1,100d file.txt # Print file.txt omitting lines 1-100.`

Alternatively, if you want to only print a known range, use the print command with the `-n` flag:

`sed -n 201,300p file.txt # Print lines 201-300 from file.txt`

This solution should work reliably on all Unix systems, regardless of the presence of GNU utilities.

edited Apr 13 at 2:31



Peter Mortensen

27.2k 21 93 123

answered Dec 2 '16 at 16:19



maerics

129k 36 237 270

1 Most readily usable answer for both cli and scripting. – [cerd](#) Dec 1 '17 at 1:37

If you want to see the first 10 lines you can use sed as below:

15 `sed -n '1,10 p' myFile.txt`

Or if you want to see lines from 20 to 30 you can use:

`sed -n '20,30 p' myFile.txt`

edited Apr 13 at 2:28



Peter Mortensen

27.2k 21 93 123

answered Dec 20 '12 at 10:04




Kadir YILDIZ

151 1 2

Just to propose a sed alternative. :) To skip first one million lines, try `|sed '1,1000000d'`.

14 Example:

```
$ perl -wle 'print for (1..1_000_005)|sed '1,1000000d'
1000001
1000002
1000003
1000004
1000005
```

- 2 @Marlon, sorry but that's wrong. That only works for 1d. If, for example, you use it on 2d, you'll delete only line 2. It doesn't delete the range of lines. – [Acumenus](#) Dec 24 '13 at 17:19 

@A-B-B sorry, meant to say that this was the easiest solution by far which is why I +1 it not trying to correct the author. – [Marlon](#) Jan 14 '14 at 19:40

Use:

13

```
sed -n '1d;p'
```

This command will delete the first line and print the rest.

edited Apr 13 at 2:32



[Peter Mortensen](#)

27.2k 21 93 123

answered Aug 3 '18 at 16:23



[Soroush Pouryazdian](#)

131 1 3

better than tail imo, since we don't have to know the number of lines to be tail-ed. we just remove the 1st line and that's all – [Tom](#) Jan 31 at 15:24

This shell script works fine for me:

10

```
#!/bin/bash
awk -v initial_line=$1 -v end_line=$2 '{
    if (NR >= initial_line && NR <= end_line)
        print $0
}' $3
```

Used with this sample file (file.txt):

```
one
two
three
four
five
six
```

The command (it will extract from second to fourth line in the file):

```
edu@debian5:~$ ./script.sh 2 4 file.txt
```

Output of this command:

Of course, you can improve it, for example by testing that all argument values are the expected :-)

answered Mar 31 '09 at 13:28



[sourcecerebels](#)

4,928 1 29 51

1 ++ for using awk, which is oh so marginally more portable than tail – [guns](#) Mar 31 '09 at 13:42

You can do this using the head and tail commands:

7

```
head -n <num> | tail -n <lines to print>
```

where num is 1e6 + the number of lines you want to print.

answered Mar 3 '09 at 2:25



[Dana the Sane](#)

13.5k 8 51 76

3 Not the most efficient answer since you'd need to do a "wc -l" on the file to get a line count, followed by an addition to add the million :-). You can do it with just "tail". – [paxdiablo](#) Mar 3 '09 at 2:43

I'm not sure, my understanding was that 1e6 would be known at the time of calling. Counting backwards isn't the fastest though. – [Dana the Sane](#) Mar 3 '09 at 3:11

```
cat < File > | awk '{if(NR > 6) print $0}'
```

3

edited Nov 21 '12 at 20:34



[C. A. McCann](#)

74.8k 19 203 300

answered Nov 21 '12 at 20:14



[aamadeo](#)

137 2 10

1 This is a syntax error in bash — in what shell does it work? – [G-Man Says 'Reinstate Monica'](#) May 18 '17 at 4:51

I run this in bash. The < and > are not part of the command, the name of the file should replace "< File >" – [aamadeo](#) May 19 '17 at 13:37

awk 'NR > 6 {print}' is sufficient... no need for the if or the \$0. – [CSTobey](#) Jan 9 '19 at 20:45

I needed to do the same and found this thread.



The more +lines worked nicely on the prompt, but it turned out it behaved totally different when run in headless mode (cronjob).

I finally wrote this myself:

```
skip=5
FILE="/tmp/filetoprint"
tail -n$((`cat "${FILE}" | wc -l` - skip)) "${FILE}"
```

answered May 28 '09 at 17:30

frater

-
- 2 Correct link of [Useless Use of Cat Award](#). The previous is replaced by advert. – [kub1x](#) Jul 26 '17 at 13:01
-
- 1 @kub1x I don't think "cat" here is useless, as "cat | wc -l" produces different output than simple "wc -l". The former is suitable for arithmetic operations, the latter is not. – [Jack](#) Jan 15 '18 at 10:14
-
- @Jack I wasn't judging the use of `cat`, but only fixing a link in a comment, that led to a dead page. The original comment must have been deleted. Anyways, thanks for pointing that out. – [kub1x](#) Jan 15 '18 at 11:55
-
- 1 @kub1x You know? After reading the link now I think that the use of "cat" here is wrong :) It should has been something like "wc -l < \${FILE}", saving some overhead time/memory (new process creation, pipelining I/O,...). Thanks, I've learned something new – [Jack](#) Jan 16 '18 at 9:43
-



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