**Test Cases: date**

No test cases for “date” command as “date” is require to print the current time and data.

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| Input | Expected Output |
| date | Tue Feb 20 18:24:43 SGT 2009 |

**Test Cases: sed**

Files:

* sed.txt
* invalid command.txt
* input1.txt, input2.txt, input3.txt, input4.txt input5.txt, input6.txt, input7.txt, input8.txt, input9.txt, input10.txt
* output1.txt, output2.txt, output3.txt, output4.txt output5.txt, output6.txt, output7.txt, output8.txt, output9.txt, output10.txt

Files Description:

* sed.txt contains the main content of the files for sed
* invalid command.txt contains the list of invalid command
* input files contains the input command
* output files contains the expected output

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| Input | Expected Output |
| sed s/the/hello/ sed.txt | There was a cat which jump out of hello box with nothing in its mouth. It silence the fish that never return in a month |
| sed s/The/hello/ sed.txt | **hellore was a cat which jump out of the box with nothing in its mouth. It silence the fish that never return in a month** |
| sed s/o/0/g sed.txt | There was a cat which jump 0ut 0f the b0x with n0thing in its m0uth. It silence the fish that never return in a m0nth |
| sed s/' '/''/g sed.txt | Therewasacatwhichjumpoutoftheboxwithnothinginitsmouth.Itsilencethefishthatneverreturninamonth |
| sed s/' '/-/g sed.txt | There-was-a-cat-which-jump-out-of-the-box-with-nothing-in-its-mouth.-It-silence-the-fish-that-never-return-in-a-month |
| sed "s|o|/|g" sed.txt | There was a cat which jump /ut /f the b/x with n/thing in its m/uth. It silence the fish that never return in a m/nth |
| sed "s#o#|#g" sed.txt | There was a cat which jump |ut |f the b|x with n|thing in its m|uth. It silence the fish that never return in a m|nth |
| sed s/' mo'/???/g sed.txt | There was a cat which jump out of the box with nothing in its???uth. It silence the fish that never return in a???nth |
| sed s/th/"'#"/g sed.txt | There was a cat which jump out of '#e box wi'# no'#ing in its mou'#. It silence '#e fish '#at never return in a mon'# |
| sed s/things/mings/ sed.txt | There was a cat which jump out of the box with nothing in its mouth. It silence the fish that never return in a month |

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| Invalid Command |
| sed s/a/"/"/ sed.txt |
| sed s/the/here sed.txt |
| sed s/my/g sed.txt |
| sed s/the/'#"/ sed.txt |
| sed s/the/hello world/ sed.txt |
| sed s//replace/ sed.txt |

**Test Cases: wc**

Files:

* wc1.txt, wc2.txt
* input1.txt, input2.txt, input3.txt, input4.txt input5.txt, input6.txt, input7.txt, input8.txt, input9.txt, input10.txt
* output1.txt, output2.txt, output3.txt, output4.txt output5.txt, output6.txt, output7.txt, output8.txt, output9.txt, output10.txt

Files Description:

* wc1.txt & wc2.txt contains the main content of the files for wc
* input files contains the input command
* output files contains the expected output

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| Input | Expected Output |
| wc wc1.txt | 22 74 457 wc1.txt |
| wc –l wc1.txt | 22 wc1.txt |
| wc –w wc1.txt | 74 wc1.txt |
| wc –m wc1.txt | 457 wc1.txt |
| wc -m wc1.txt -w | 74 457 wc1.txt |
| wc -m wc1.txt -w wc2.txt | 74 457 wc1.txt  6 60 wc2.txt  80 517 total |
| wc -m wc1.txt -m wc2.txt | 457 wc1.txt  60 wc2.txt  517 total |
| wc -m wc1.txt -l wc2.txt -l | 22 457 wc1.txt  5 60 wc2.txt  27 517 total |
| wc -m wc1.txt -l wc2.txt -l wc2.txt | 22 457 wc1.txt  5 60 wc2.txt  5 60 wc2.txt  32 577 total |
| wc wc1.txt wc2.txt wc2.txt | 22 74 457 wc1.txt  5 6 60 wc2.txt  5 6 60 wc2.txt  32 86 577 total |

**Test Cases: piping operator**

Files:

pipe1.txt, pipe2.txt

* input1.txt, input2.txt, input3.txt, input4.txt input5.txt, input6.txt, input7.txt, input8.txt, input9.txt, input10.txt
* output1.txt, output2.txt, output3.txt, output4.txt output5.txt, output6.txt, output7.txt, output8.txt, output9.txt, output10.txt

Files Description:

* pipe1.txt & pipe2.txt contains the main content of the files for pipe
* input files contains the input command
* output files contains the expected output

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| Input | Expected Output |
| cat pipe1.txt | grep "Select" | Select BOOLEAN such that Follows (5, 6)  Select s1 such that Follows (54, s1)  Select s1 such that Follows (s1, 178)  Select s1 such that Follows (\_, 1)  Select s1 such that Follows (\_, s1)  Select s1 such that Follows (150, \_) |
| cat pipe1.txt | grep "HILEf" |  |
| head pipe1.txt -n 3 | grep "Select" | Select BOOLEAN such that Follows (5, 6) |
| head pipe1.txt -n 3 | grep "Select" | tail pipe2.txt | asdnfas;fnka  sanla;fn;akdf;  aer321324  alan  afa23  341234 |
| cat pipe1.txt | grep "Select" | grep "BOOLEAN" | Select BOOLEAN such that Follows (5, 6) |
| cat pipe1.txt | grep "Select" | grep "5000" |  |
| head pipe2.txt -n 2 | wc -m | 30 |
| tail pipe2.txt | head pipe1.txt -n 2 | wc | 2 8 48 |
| echo "bye" | echo "Hello" | Hello |
| cat pipe1.txt | echo "hello" | hello |

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| Invalid Command |
| head pipe1.txt -n 3 | grep "Select" -n 3 |
| head pipe1.txt -n | wc |
| cat pipe1. | grep “Select” |
| cat head pipe1.txt | grep "123" |
| cat head pipe1.txt | tail "123" |