Test Case	Input	Expected Result	Output
K clears line	the quick brownKfoxE	the quick brownKfox fox	Zaur@LAPTOP-VJ48LA00:~/data-comm/c4981/c4981-assign1\$./assign1.out the quick brownKfox fox
X deletes 1 character	abXcdE	abXcd acd	Zaur@LAPTOP-VJ48LA00:~/data-comm/c4981/c4981-assign1\$./assign1.out abXcd zcd
a gets replaced by z	alphabetE	alphabet zlphzbet	Zaur@LAPTOP-VJ48LA00:~/data-comm/c4981/c4981-assign1\$./assign1.out alphabet zlphzbet
Characters are echoed	asdf	asdf	Zaur@LAPTOP-VJ48LA00:~/data-comm/c4981/c4981-assign1 \$./assign1.out asdf
E sends characters to be translated	Roses are redE	Roses are red Roses zre red	Zaur@LAPTOP-VJ48LA00:~/data-comm/c4981/c4981-assign1\$./assign1.out Rose are red Rose zre red
T terminates the program normally	Τ	Termination of the program with no zombies	Taur@LAPTOP-VJ48LA00:~/data-comm/c4981/c4981-assign1\$./assign1.out Zaur@LAPTOP-VJ48LA00:~/data-comm/c4981/c4981-assign1\$ top - 22:22:40 up 2 days, 5:14, 0 users, load average: 0.52, 0.58, 0.59 Tasks: 9 total, 1 running, 7 sleeping, 1 stopped, 0 zombie KCpu(s): 0.8 us, 1.0 sy, 0.0 nl, 9.81 id, 0.0 wa, 0.0 hl, 0.8 si, 0.0 st KIB Nem: 16668304 total, 9481204 free, 6956884 used, 236476 buff/cache KIB Swap: 59331648 total, 9481204 free, 76668 used, 975824 avail Mem PIO USER PR NI VIRT RES SHR S KCPU %MEM TIME+ COMMAND 1 root 20 0 10432 96 64 5 0.0 0.0 0:00.06 init 2 zaur 20 0 25888 1884 1784 5 0.0 0.0 0:00.06 init 26 zaur 20 0 48516 2188 1012 5 0.0 0.0 0:00.10 bash 24 zaur 20 0 39204 256 160 5 0.0 0.0 0:00.05 bash 24 zaur 20 0 48516 2188 1012 5 0.0 0.0 0:24.56 tmux 27 zaur 20 0 55128 3060 2808 5 0.0 0.0 0:24.56 tmux 27 zaur 20 0 54760 2544 2349 5 0.0 0.0 0:00.29 bash 43 zaur 20 0 5480 1896 1808 5 0.0 0.0 0:00.25 bash 179 zaur 20 0 5480 1896 1808 5 0.0 0.0 0:00.07 bash 179 zaur 20 0 79640 3124 9 T 0.0 0.0 0:00.07 bash 179 zaur 20 0 79640 3124 9 T 0.0 0.0 0:00.07 bash 179 zaur 20 0 79640 3124 9 T 0.0 0.0 0:00.07 bash 179 zaur 20 0 79640 3124 9 T 0.0 0.0 0:00.07 bash 179 zaur 20 0 79640 3124 9 T 0.0 0.0 0:00.07 bash 179 zaur 20 0 79640 3124 9 T 0.0 0.0 0:00.07 bash

^K terminates the program abnormally	^K	Abnormal termination of the program with no zombies	TaurgLAPTOP-VJ48LAO8:-/data-comm/c4981/c4981-assign1\$./assign1.out Quit (core dumped) ZaurgLAPTOP-VJ48LAO8:-/data-comm/c4981/c4981-assign1\$ top - 22:23:16 up 2 days, 5:14, 0 users, load average: 0.52, 0.58, 0.59 Tasks: 9 total, 1 running, 7 sleeping, 1 stopped, 0 zombie KCpu(s): 1.6 us, 7.6 sy, 0.0 ni, 90.8 id, 0.0 ws, 0.0 hi, 0.0 si, 0.0 st KiB Nem: 16688364 total, 9581996 free, 685872 used, 236476 buff/cache KiB Kswap: 50331648 total, 9581996 free, 685872 used, 236476 buff/cache KiB swap: 50331648 total, 50242216 free, 88432 used, 9676716 avail Nem PIU USER PR NI VIRT RES SHR S KCPU XMEM TI root 20 0 10432 96 64 5 0.0 0.0 0:00.05 hist 2 zaur 20 0 25888 1884 1784 5 0.0 0.0 0:00.01 bash 2 24 zaur 20 0 39204 256 160 5 0.0 0.0 0:00.01 bash 2 27 zaur 20 0 40516 2108 1012 5 0.0 0.0 0:00.01 tmux 27 zaur 20 0 54760 2544 2340 5 0.0 0.0 0:02.25 bash 43 zaur 20 0 79640 3124 0 T 0.0 0.0 0:00.97 bash 179 zaur 20 0 79640 3124 588 R 0.0 0.0 0:00.99 bash 179 zaur 20 0 79640 3124 588 R 0.0 0.0 0:00.99 bash 179 zaur 20 0 79640 3124 588 R 0.0 0.0 0:00.99 bash 1152 zaur 20 0 79640 3124 588 R 0.0 0.0 0:00.99 bash
Entering too many characters before pressing E	5118+ 'g' characters	Error message about buffer overflow and then normal termination	SREADERSEESESSESSESSESSESSESSESSESSESSESSESSE