Weaver Fall 2020

CS 161 Computer Security

Final Exam

For any logistics emergencies during the exam, email cs161-staff@berkeley.edu or text (252) 410-1123.

	cs161-staff@berkeley.edu or text (252) 410-1123.
For que	estions with circular bubbles , you may select exactly <i>one</i> choice on Gradescope.
(Unselected option
	Only one selected option
For que	estions with square checkboxes , you may select <i>one</i> or more choices on Gradescope.
	You can select
	multiple squares
For que	estions with a large box , you need to write your answer in the text box on Gradescope.
There is exam.	s an appendix on the last page of this exam, containing descriptions of all C functions used on this
You hav	ve 180 minutes. There are 11 questions of varying credit (200 points total).
	adescope answer sheet assignment has a time limit of 180 minutes. Do not click "Start Assignment" ou're ready to start the exam. The password to decrypt the PDF is at the top of the answer sheet.
The exa	am is open note. You can use an unlimited number of handwritten cheat sheets, but you must work
Clarific	eations will be posted at https://cs161.org/clarifications.
. •	MANDATORY – Honor Code ad the following honor code and type your name on Gradescope. (5 points)
a	understand that I may not collaborate with anyone else on this exam, or cheat in any way. I am aware of the Berkeley Campus Code of Student Conduct and acknowledge that academic misconduct will be reported to the Center for Student Conduct and may further result in at

This is the end of Q1. Leave the remaining subparts of Q1 blank on Gradescope, if there are any. Proceed to Q2 on your answer sheet.

minimum, negative points on the exam and a corresponding notch not on Nick's staff but on his

Stanley Fubar demolition tool.

C Function Definitions

size_t strnlen(const char *s, size_t maxlen);

The strnlen() function returns the number of characters in the string pointed to by s, excluding the terminating null byte (' $\0$ '), but at most maxlen. In doing this, strnlen() looks only at the first maxlen characters in the string pointed to by s and never beyond s+maxlen.

char *strcpy(char *dest, const char *src);

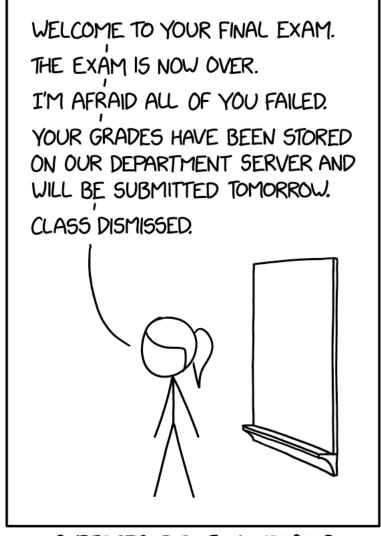
The strcpy() function copies the string pointed to by src, including the terminating null byte (' $\0$ '), to the buffer pointed to by dest. The strings may not overlap, and the destination string dest must be large enough to receive the copy.

char *strncpy(char *dest, const char *src, size_t n);

The strncpy() function is similar, except that at most n bytes of src are copied. Warning: If there is no null byte among the first n bytes of src, the string placed in dest will not be null-terminated.

If the length of src is less than n, strncpy() writes additional null bytes to dest to ensure that a total of n bytes are written.

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