		yonasleykun27 / printf Q	
		Signature ● Issues Projects ● Actions ● Projects	•••
team	پ project	☆ printf	
	I stars ublic repo	69 forks ⊙ 2 watching - Activity ository	
P	master		•••
۴ Bra	anches	▼ Tags	
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	test_file workin	es g_printf	last year last year
	READN _printf.		last year last year
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	get_fla get_pre	gs.c ecision.c	last year last year
	get_siz		last year
	get_wide	dth.c _print.c	last year last year
	main.h utils.c		last year last year
	write_h	nandlers.c	last year
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		Software Enginering Printf	
		m Project m project is a custom made printf function for the C	
	program various i standard	nming language called _printf. It has been optimized to take nputs and optional arguments based exactly on how the dibrary function printf works. We submitted this as part of tware engineering course requirement for grading.	
	Syno		
	stream vectors standard when precipitation.	ction _printf() writes output to stdout, the standard output with the format and options without making use of any of the library files. It was written to use a local buffer of 1024 byte inting although it can print larger sets of data. htf() function returns the total number of characters printed	es to
	executio	ut(excluding the null byte at the end of strings) after a succent. The put error is encountered, a negative value of -1 is returned.	
		cotype of this function is: int _printf(const char format,); ans that it has one mandatory format argument, and an extr	·a
,	number	of arguments that can be none, or many. of the format string	G
		nat string is a character string starting and ending with doub The format string is composed of zero or more directives;	ole
	ordinary	characters (not %), and conversion specifications, each of was fetching zero or more subsequent arguments.	hich
		nversion specification is introduced by the character % and onversion specifier. In between there may be (in this order):	
		or more flags	
	Ι.	otional field width otional precision modifier	
		otional length modifier characters	
	Flag	Description	
	#	For o conversions the first character of the output string is made zero (by prefixing a 0 if it was not zero already). For and X conversions, a nonzero result has the string " 0x " or " 0X " respectively added.	X
	0	(Not implemented yet) The value should be zero padded. d, i, o, u, x, and X the converted value is padded on the le with zeros. If the 0 and - flags both appear, the 0 flag is ignored. If a precision is given with a numeric conversion,	ft
	_	O flag is ignored. (Minus sign, not implemented yet) The converted value is be left adjusted on the field boundary, (Default is right justification) and padded with blanks in the right rather the on the left with blanks or zeros. This flag overrides O if both	an
		are given. (Blank Space) The argument is padded with a single blank space before a positive number or empty string produced	
		a signed conversion. A sign (+ or -) should always be placed before a number	
	+	produced with a signed conversion. By default, only negation numbers have this sign.	ive
	minimur field wid present,	onal decimal digit string (with nonzero first digit) specifying in field width. If the converted value has fewer characters that the the padded with spaces on the left if the flag - is not and on the right if it is present. A character * can be used in the flag. In this case, an argument passed to the function	an the ot istead
		as the width value. F("%5d", num);	
	or		
	printf		
	The pred	cision	
	decimal omitted. x, and X printed the contract of the contra	onal precision, in the form of a period ('.') followed by an open digit string. A negative precision is taken as if the precision. This gives the minimum number of digits to appear for d, is conversions, or the maximum number of characters to be from a string for s and S conversions. A character * can be used to the will be taken as the precision value.	were , o, u,
		f("%.3d", num);	
	or ·		
		gth modifiers	
	Modif	ier Description	
	1	An integer conversion to a long int or unsigned long argument.	int
	h	An integer conversion to a short int or unsigned sho int argument.	rt
	The con	version specifier ier Description	
	d, i	The argument int is converted to a signed decimal notation. If precision is present, it gives the minimum number of digits that must appear; if the converted value requires fewer digits, then it is padded with zer on the left. Default precision is 1.	OS
		The argument is converted to unsigned octal (o), unsigned decimal (u), or unsigned hexamedical (x and	d X)
	o, u, x	notation. The letters abcdef are used for x conversion and the letters ABCDEF are used for X conversion. If precision is present, it will give the minimum number digits that must appear; if the converted value require fewer digits, then it will be padded with zeros. By definition	of
		the precision is 1. The int argument is converted to an unsigned char are the reculting character is written. The representation	
	C	the resulting character is written. The representation characters is based off the ASCII coding. The argument received is expected to be a pointer ty	
	S	char * to an array of characters. Characters from this array are printed up to (but not including) a null byte	

$('\0')$. If precision is specified, then this will determine how many characters are taken into account for printing. A void * pointer argument is printed as hexadecimal in p lower caps representing an adress in memory.

	%	A'%' character is written and no conversion is made. The specification is as follows: %%.		
	b	The argument is converted to an unsigned int value and then operated to get its binary representation (base 2).		
	S	The argument received is expected to be a pointer type char * to an array of characters. Characters from this array are printed up to (but not including) a null byte ('\0'). Non printable characters (0 < ASCII value < 32 or >= 127) are printed this way: \x, followed by the ASCII code value in hexadecimal (upper case - always 2 characters).		
	r	The argument received is expected to be a pointer type char * to an array of characters. Characters from this array are printed in reverse order up to (but not including) a null byte ('\0').		
	R	The argument received is expected to be a pointer type char * to an array of characters. Characters from this array are encoded to ROT13 and printed in order up to (but not including a null byte ('\0').		
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