

	Results	Entity	Line	Column	CheckID	Check Name	Severity
91	Number of Results: 91						
91	C:\Users\ashle\OneDrive\Desktop\CS692\Ass-2\assignment2_beaglebone.c						
	● Comma operator was used	assignment2_beagle...	25	22	MISRA12_12.3	12.3 The comma operator should not be used.	
	● Comma operator was used	assignment2_beagle...	33	22	MISRA12_12.3	12.3 The comma operator should not be used.	
	● Multiple exit points from function	is_gpio_available	58	4	MISRA12_15.5	15.5 A function should have a single point of exit at the end	
	● The value returned by a function having non-void return type was not used	sprintf	41	4	MISRA12_17.7	17.7 The value returned by a function having non-void return type shall be used	
	● The value returned by a function having non-void return type was not used	write	35	8	MISRA12_17.7	17.7 The value returned by a function having non-void return type shall be used	
	● The value returned by a function having non-void return type was not used	strlen	35	29	MISRA12_17.7	17.7 The value returned by a function having non-void return type shall be used	
	● The value returned by a function having non-void return type was not used	close	36	8	MISRA12_17.7	17.7 The value returned by a function having non-void return type shall be used	
	● The value returned by a function having non-void return type was not used	write	27	8	MISRA12_17.7	17.7 The value returned by a function having non-void return type shall be used	
	● The value returned by a function having non-void return type was not used	strlen	27	25	MISRA12_17.7	17.7 The value returned by a function having non-void return type shall be used	
	● The value returned by a function having non-void return type was not used	close	28	8	MISRA12_17.7	17.7 The value returned by a function having non-void return type shall be used	
	● The value returned by a function having non-void return type was not used	sprintf	60	4	MISRA12_17.7	17.7 The value returned by a function having non-void return type shall be used	
	● The value returned by a function having non-void return type was not used	printf	54	4	MISRA12_17.7	17.7 The value returned by a function having non-void return type shall be used	
	● Unused unused parameter path	path	32	36	MISRA12_2.7	2.7 There should be no unused parameters in functions	
	● Unused unused parameter path	path	24	28	MISRA12_2.7	2.7 There should be no unused parameters in functions	
	● time.h used	fcntl.h	1	0	MISRA12_21.10	21.10 The Standard Library time and date functions shall not be used	
	● Reserved Identifier, Macro, or Function declared in file assignment2_beaglebone.c	strlen	27	25	MISRA12_21.2	21.2 A reserved identifier or macro name shall not be declared	
	● Reserved Identifier, Macro, or Function declared in file assignment2_beaglebone.c	printf	54	4	MISRA12_21.2	21.2 A reserved identifier or macro name shall not be declared	
	● header file signal.h used.	assignment2_beagle...	6	0	MISRA12_21.5	21.5 The standard header file signal.h shall not be used	
	● Object or function has external linkage but no visible declaration	exit_flag	14	22	MISRA12_8.4	8.4 A compatible declaration shall be visible when an object or function with external linkage is defi...	
	● Object or function has external linkage but no visible declaration	led1	22	11	MISRA12_8.4	8.4 A compatible declaration shall be visible when an object or function with external linkage is defi...	
	● Object or function has external linkage but no visible declaration	led2	22	17	MISRA12_8.4	8.4 A compatible declaration shall be visible when an object or function with external linkage is defi...	
	● Object or function has external linkage but no visible declaration	gpio_write	24	5	MISRA12_8.4	8.4 A compatible declaration shall be visible when an object or function with external linkage is defi...	
	● Object or function has external linkage but no visible declaration	gpio_set_direction	32	5	MISRA12_8.4	8.4 A compatible declaration shall be visible when an object or function with external linkage is defi...	
	● Object or function has external linkage but no visible declaration	construct_path	40	5	MISRA12_8.4	8.4 A compatible declaration shall be visible when an object or function with external linkage is defi...	
	● Object or function has external linkage but no visible declaration	initialize_leds_as_ou...	44	5	MISRA12_8.4	8.4 A compatible declaration shall be visible when an object or function with external linkage is defi...	
	● Object or function has external linkage but no visible declaration	signal_handler	53	5	MISRA12_8.4	8.4 A compatible declaration shall be visible when an object or function with external linkage is defi...	
	● Object or function has external linkage but no visible declaration	is_gpio_available	58	4	MISRA12_8.4	8.4 A compatible declaration shall be visible when an object or function with external linkage is defi...	
	● exit_flag has external linkage but is only used in the translation unit built from assignment2_beaglebone.c, so the static keyword... exit_flag	exit_flag	14	22	MISRA12_8.7	8.7 Functions and objects should not be defined with external linkage if they are referenced in only ...	
	● led1 has external linkage but is only used in the translation unit built from assignment2_beaglebone.c, so the static keyword sh... led1	led1	22	11	MISRA12_8.7	8.7 Functions and objects should not be defined with external linkage if they are referenced in only ...	
	● led2 has external linkage but is only used in the translation unit built from assignment2_beaglebone.c, so the static keyword sh... led2	led2	22	17	MISRA12_8.7	8.7 Functions and objects should not be defined with external linkage if they are referenced in only ...	
	● gpio_write has external linkage but is only used in the translation unit built from assignment2_beaglebone.c, so the static keyword... gpio_write	gpio_write	24	5	MISRA12_8.7	8.7 Functions and objects should not be defined with external linkage if they are referenced in only ...	
	● gpio_set_direction has external linkage but is only used in the translation unit built from assignment2_beaglebone.c, so the static keyword... gpio_set_direction	gpio_set_direction	32	5	MISRA12_8.7	8.7 Functions and objects should not be defined with external linkage if they are referenced in only ...	
	● construct_path has external linkage but is only used in the translation unit built from assignment2_beaglebone.c, so the static keyword... construct_path	construct_path	40	5	MISRA12_8.7	8.7 Functions and objects should not be defined with external linkage if they are referenced in only ...	
	● initialize_leds_as_output has external linkage but is only used in the translation unit built from assignment2_beaglebone.c, so the static keyword... initialize_leds_as_ou...	initialize_leds_as_ou...	44	5	MISRA12_8.7	8.7 Functions and objects should not be defined with external linkage if they are referenced in only ...	
	● signal_handler has external linkage but is only used in the translation unit built from assignment2_beaglebone.c, so the static keyword... signal_handler	signal_handler	53	5	MISRA12_8.7	8.7 Functions and objects should not be defined with external linkage if they are referenced in only ...	
	● is_gpio_available has external linkage but is only used in the translation unit built from assignment2_beaglebone.c, so the static keyword... is_gpio_available	is_gpio_available	58	4	MISRA12_8.7	8.7 Functions and objects should not be defined with external linkage if they are referenced in only ...	
	● exit_flag is only used in a single function and should be defined at block scope.	exit_flag	14	22	MISRA12_8.9	8.9 An object should be defined at block scope if its identifier only appears in a single function	
	● Basic numerical type "int" used in "volatile int"						
	● Basic numerical type "unsigned" used in "unsigned long long"						
	● Basic numerical type "int" used	strlen	27	25	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "int" used	sprintf	41	4	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "int" used	printf	54	4	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "int" used	is_gpio_available	58	4	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "char" used in "const char **"	path	40	26	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "char" used in "const char **"	base	40	44	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "char" used in "const char **"	gpio	40	62	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "char" used in "const char **"	file	40	80	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "char" used in "const char **"	path	32	36	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "char" used in "const char **"	direction	32	54	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "int" used	fd	33	8	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "char" used in "const char **"	path	24	28	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "char" used in "const char **"	value	24	46	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "int" used	fd	25	8	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "int" used	open	25	13	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "int" used	write	27	8	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "int" used	close	28	8	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "char" used in "const char **"	gpio_number	58	34	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "char" used in "char[256]"	path	59	9	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "int" used	opendir	62	15	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "int" used	closedir	64	8	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "char" used in "char[256]"	red	17	9	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
	● Basic numerical type "char" used in "char[256]"	yellow	18	9	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	

Results	Entity	Line	Column	CheckID	Check Name	Severity
↳ Basic numerical type "char" used in "char[256]"	green	19	9	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
↳ Basic numerical type "int" used	sig	53	24	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
↳ Object or function has external linkage but no visible declaration	precise_sleep	71	5	MISRA12_8.4	8.4 A compatible declaration shall be visible when an object or function with external linkage is defi...	
↳ precise_sleep has external linkage but is only used in the translation unit built from assignment2_beaglebone.c, so the static k...	precise_sleep	71	5	MISRA12_8.7	8.7 Functions and objects should not be defined with external linkage if they are referenced in only ...	
↳ Basic numerical type "double" used	seconds	71	26	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
↳ Comma operator was used	assignment2_beagle...	75	17	MISRA12_12.3	12.3 The comma operator should not be used.	
↳ Basic numerical type "int" used	nanosleep	75	4	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
↳ Basic numerical type "char" used in "char[10]"	gpio	79	9	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
↳ Basic numerical type "float" used	signal_time_minutes	80	10	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
↳ Basic numerical type "float" used	signal_time	80	31	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
↳ Basic numerical type "float" used in "const float"	yellow_time	81	16	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
↳ Basic numerical type "float" used in "const float"	transition_time	82	16	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
↳ Basic numerical type "float" used in "const float"	flash_duration	83	16	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
↳ Comma operator was used	assignment2_beagle...	85	17	MISRA12_12.3	12.3 The comma operator should not be used.	
↳ Reserved Identifier, Macro, or Function declared in file assignment2_beaglebone.c	signal	85	4	MISRA12_21.2	21.2 A reserved identifier or macro name shall not be declared	
↳ Basic numerical type "int" used	signal	85	4	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
↳ The value returned by a function having non-void return type was not used	printf	87	4	MISRA12_17.7	17.7 The value returned by a function having non-void return type shall be used	
↳ stdio.h input/output function printf used in file assignment2_beaglebone.c	printf	87	4	MISRA12_21.6	21.6 The Standard Library input/output functions shall not be used	
↳ The value returned by a function having non-void return type was not used	scanf	88	4	MISRA12_17.7	17.7 The value returned by a function having non-void return type shall be used	
↳ Reserved Identifier, Macro, or Function declared in file assignment2_beaglebone.c	scanf	88	4	MISRA12_21.2	21.2 A reserved identifier or macro name shall not be declared	
↳ Basic numerical type "int" used	scanf	88	4	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
↳ Basic numerical type "char" used in "const char *[6]"	gpio_prompts	91	16	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
↳ Basic numerical type "char" used in "char *[6]"	gpio_paths	99	10	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
↳ Basic numerical type "int" used	i	101	13	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
↳ The value returned by a function having non-void return type was not used	printf	103	12	MISRA12_17.7	17.7 The value returned by a function having non-void return type shall be used	
↳ The value returned by a function having non-void return type was not used	scanf	104	12	MISRA12_17.7	17.7 The value returned by a function having non-void return type shall be used	
↳ Uninitialized memory is read	gpio	104	24	MISRA12_9.1	9.1 The value of an object with automatic storage duration shall not be read before it has been set	
↳ The value returned by a function having non-void return type was not used	printf	106	16	MISRA12_17.7	17.7 The value returned by a function having non-void return type shall be used	
↳ Basic numerical type "int" used	i	117	13	MISRA12_DIR_4.6	Directive 4.6 Typedefs that indicate size and signedness should be used in place of the basic num...	
↳ The value returned by a function having non-void return type was not used	printf	206	4	MISRA12_17.7	17.7 The value returned by a function having non-void return type shall be used	