



Problem Name (link to files) [1]	Category	Point Value	Flag	Description	Hint	Completed?	Tested?	Reviewed?	Author
Axolotl	Forensics	200	pekoe{ti_quan_yin_75dea7}	The axolotl holds many secrets... could one of them be the flag? [axolotl.png]	Have you heard of steganography?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	James & Stephen
My Brain Hertz	Cryptography	200	victorian_london_fog_jksmxp	This seems to be a substitution cipher, but I have no idea which letters are substituted for which! [hertz.txt]	The flag is not in the normal flag format.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stephen
262144	Cryptography	200	pekoe{white_peony_ba06a4}	Encoding it again will make it more secure... right? [262144.txt]	Figure out what was used to encode it, then run the ciphertext through more than once.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stephen
Relaxing Binaural RSMA	Cryptography	200	pekoe{japanese_sencha_822a9c}	I thought I was going to get weird mouth noises, but I just got these numbers...? [topqualityrsma.txt]	RSA? No, I don't know anything about that. Once you get a decoded number, convert it from base 10 to base 16, then to ASCII.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stephen
Eating Gerber Peas (2)	General Skills	200	pekoe{01010100}	This time you have to work out the binary output of the circuit based on the following input: 00011001 [gerber_2.zip]	Submit the flag as pekoe(decoded_output)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Toby
Cocytus	General Skills	200	pekoe{guayusa_5525fe}	Puny mortal, behold! This program was written in the most nightmarish of languages! The unholyest of compilers and the vilest of interpreters! You will never be able to run it! Perish before its ultimate power! [cocytus.txt]	What's an esolang?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stephen
Spectrum of Difficulty	Forensics	250	pekoe{hot_cinnamon_spice_56dbf7}	Someone seems to have hidden a message in my favorite song. Can you find it? [teatime.aif]	Can you hide an image in a sound?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stephen
Missingno. (1)	Forensics	250	pekoe{gyokuro_23dfb4}	I found this strange image... what does it say? [missingno.png]	You might need to write a program for this.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stephen
203703...	Cryptography	250	pekoe{mayfair_breakfast_7248ed}	I encoded the flag in base 64 fifty times. Why, you ask? Well, that's a fantastic question. [203703.txt]	Make sure your program doesn't lose any precision.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stephen
More RSMA	Cryptography	250	pekoe{ruby_black_73cbe0}	I thought for sure that I would get mouth noises <i>this</i> time... [rsa2.txt]	It might be hard to find browser tools that can handle the sort of high numbers involved in RSA; you'll probably have to write something yourself.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stephen
Blink	General Skills	250	pekoe{blueberry_green_20b131}	This light just keeps turning on and off, it's almost like it is trying to tell me something. (Please note that the flag is not in the usual format) [blinkety_blink.ino]	Ever heard of arduino? What code uses signals delayed at different intervals? Sumbit your flag as pekoe{output}. Replace the spaces in your output with underscores.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Owen
Switcheroo (1)	Reverse Engineering	250	pekoe{supreme_pearled_jasmine_b35b46}	I accidentally let my flag wander too close to this script, and now it's all flipped around! Can you help me? [switchedflag.txt] [Switcheroo.java]	Read the script carefully and think about how to reverse what it's doing.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stephen
A Little Bit Wise (1)	Reverse Engineering	250	pekoe{gong_mei_b6b866}	What did this code do to my flag? [bitwise.txt] [ALittleBitWise1.java]	What's a bitwise operator?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stephen
A Little Bit Wise (2)	Reverse Engineering	250	pekoe{apricot_c4b805}	MY SHIFT KEY IS STUCK HOW DO I TURN IT OFF [shift.txt] [ALittleBitWise2.java]	I THINK I SHIFTED THE BITS OF THE FLAG CAN SOMEONE PLEASE HELP ME UNSTICK THIS KEY	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stephen
Surgeon	Forensics	250	pekoe{hojicha_52d494}	Doctor, doctor, come quick! The patient seems to have suffered damage to the head... [surgeon.png]	What's the "head" of a file?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Stephen (image by Sarah)
The Muffin's Message (2)	Forensics	300	pekoe{genmaicha_55e9f4}	WHAT SECRETS DOES THE MUFFIN HOLD? [MUFFIN2.PNG]	<a href="https://www.youtube.com/watch?v=Qwe6qXFTdgc">youtube.com/watch?v=Qwe6qXFTdgc</a>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stephen (muffin by Sarah)
Missingno. (2)	Forensics	300	pekoe{pomegranate_oolong_783489}	I found another strange image... [missingno2.png]	There are colors now? Well, that means more data in the file, which means it'll be a lot more condensed than last time.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stephen
Missingno. (3)	Forensics	300	pekoe{citron_green_f768cb}	Well, the strange images start coming and they don't stop coming. [missingno3.png]	This one isn't structured like the other two are. 128 is the magic number.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stephen
Switcheroo (2)	Reverse Engineering	300	pekoe{keemun_396a70}	Now, what's going on here...? [SwitcherooToo.java] [switched2.txt]	Write your own unswitcheroo method to switcheroo the switcheroo that switcheroo switcheroo'd... I think.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stephen
A Little Bit Wise (3)	Reverse Engineering	350	pekoe{ceylon_36387a}	Use your wisdom to find the flag! [bitwise3.txt] [ALittleBitWise3.java]	It would do you well to make sure you know what all these operators are doing; you'll need to reverse some, but not others.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stephen
l33tsp3ak rsa	Cryptography	350	p3ko3{baicha_7c5d6b}	im a mast3r of 3ncoding. i told 3 of my fri3nds all about it. all you n33d to do to s3nd s3cur3 m3ssag3s lik3 m3 is... [l33t.txt]	i s3nt all 3 of th3m th3 3xact sam3 m3ssag3. lik3 th3 oth3r rsa probl3ms, conv3rt the d3cimal numb3r to h3x, th3n to ascii.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stephen
lost porter	Web Exploitation	350	pekoe{passion_plum_2111b6}	Apparently the porter left a back door open, I just don't know where it is. Can you find it. I think it is somewhere at ctf.dhsprogramming.com (for testing/reviewing you might want to use ip.tgctech.com)	You might want to try scanning for openings that you can connect to. I think it's under this page...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Toby
Spectrum of Difficulty (2)	Forensics	400	pekoe{ginger_liquorice_3cdde5}	It's teatime! [moreteatime.wav]	Audacity is a good software for this.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stephen
Beneath the Mask	Reverse Engineering	450	pekoe{amba_thieves_tea_6cb8a9}	I'm a shapeshifter, what else should I be? Please don't take off my mask, revealing the flag... (instructions in the hint) [masked.txt]	If the bits are ordered like so: "01234567," set bit 3 to 1 for each value that has an "x" after it, set bit 6 to 0 for each value that has a "y" after it, and flip the value of bit 5 for each value that has a "z" after it.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stephen
It's a Secret to Everybody (2)	Cryptography	500	pekoe{uva_highlands_hkczov}	Today's weather report is in... huh? [secret2.txt]	You'll probably need some specialized tools to crack this one. What mistakes led to this cipher first being broken? The reflector being used is C and the rotors used are II, III, IV in that order.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Stephen