

Number	Type	Problem	Test input	Expected answer	Points
1	Cryptography	<p>Only hashlib, crypt and cryptography are available for import. Please add appropriate imports. You are given a username and password for that user. You are also given a list of valid MD5 password hashes. These password hashes have been produced by concatenating username and password separated by ASCII 1 (non-printable character Start of Header). Please complete the code so that if the combination username, password is valid (i.e., in the list of password hashes) then it returns true else false. Both username and password are case-sensitive.</p>	user password 2b1e18e4b0a44fed21797fe4c877743b f3e35f0076732348535e668b2c76d62c 4f717b966a7988072cfb0141efc8c0fe	1	Sample
			nonuser password 2b1e18e4b0a44fed21797fe4c877743b f3e35f0076732348535e668b2c76d62c 4f717b966a7988072cfb0141efc8c0fe	0	Sample
			user1 password2 2b1e18e4b0a44fed21797fe4c877743b f3e35f0076732348535e668b2c76d62c 4f717b966a7988072cfb0141efc8c0fe	1	1.5
			myuser P\$34D345fgr 2b1e18e4b0a44fed21797fe4c877743b f3e35f0076732348535e668b2c76d62c 4f717b966a7988072cfb0141efc8c0fe	0	1.5
			myuser2 P\$34D345fgr 2b1e18e4b0a44fed21797fe4c877743b f3e35f0076732348535e668b2c76d62c 4f717b966a7988072cfb0141efc8c0fe	1	1.5
			user1 password 2b1e18e4b0a44fed21797fe4c877743b f3e35f0076732348535e668b2c76d62c 4f717b966a7988072cfb0141efc8c0fe	0	1.5

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2	Cryptography	Only hashlib, crypt and cryptography are available for import. Please add appropriate imports. You are given a string. Hash it using SHA-512 algorithm.	sample	39a5e04aaff7455d9850c605364f514c11324ce64016960d23d5dc57d3ffd8f49a739468ab8049bf18eef820cdb1ad6c9015f838556bc7fad4138b23fdf986c7	Sample
			<<empty string>>	cf83e1357eefb8bdf1542850d66d8007d620e4050b5715dc83f4a921d36ce9ce47d0d13c5d85f2b0ff8318d2877eec2f63b931bd47417a81a538327af927da3e	5/3
			event	6c7a578387e2e69bbb689df26fb43129e5a702b57d9bf336dda14c54542bb4c16666607eccfd3fa1e39621a8c3425d1f96218dfade954aec04b09af6e6575386	5/3
			supervisor	abe6267e41571ad4632231ccab1936e34c91ee389b02bcafe90a6391012bba585138edf92ccf349a451722d8236937fc26fa22c1edf0f9de6851bc96a9a13b82	5/3
3	Cryptography	Encode an uppercase string with Caesar cypher and shift of 10.	SAMPLE	CKWZVO	sample
			HIGHLIGHTED	RSQRVSQRDON	3
			PRESIDENT	ZBOCSNOXD	3
4	General	Given two values, concatenate them with a space. If any of the value is empty (zero length) then the space should not be put there.	<<empty string>> <<empty string>>	<<empty string>>	Sample
			Sample Here	Sample Here	Sample
			Hello Alice	Hello Alice	1
			Hi Eve	Hi Eve	1
			Hello Name	Hello Name	1
			Spaced<<space>>	Spaced<<space>>	1

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5	General	Write code to multiply 5 numbers	1	120.0	Sample
			2		
			3		
			4		
			5		
			10.5	35979.7032	4
			9.4		
			8.3		
			7.2		
			6.1		
6	General	Test whether the given string is a palindrome or not. Ignore case and punctuation marks when testing for palindrome.	Hannah	1	Sample
			Hanna	0	Sample
			Able was I ere I saw Elba	1	2.2
			A man, a plan, a canal – Panama	1	4.4
			A man, a plan, a camel – Panama	0	2.2
			obviously not	0	2.2