Document tag query problem Thoughts	
Assuming there is a main	variable vault storing list of designed data structure
Basic data structure no ilutter of	the decrement.
Class d - has 2 variables tontext, - String. a	ontext of the document (use int for simplicity.) (not needed)
• tags - [String],	the document ontext of the document (use int for simplicity) (not needed) tags in string
Brute Force	E.g.: docs = {d1, d2, d3, d4, d5} tags = {t1, t2, t3, t4, t5, t6}
,	01 d2 d3 d4 d5
let q be the tags list we are searching for result = [] # initialize the result list	t, to t3 t, t5 to t4 t5 to t5 to t5
for d in documents:	9= { t1, t2, t3, t6} q > d; " tags
in-subset = True	process: d,? ds? ds? ds? ds? ts = 6? \tau ts = 6. \tau t
for tag in d.tags: if not (tag in q):	to E e ? \ da \ da \ da \ da
if not (tag in q): in_subset = false	Ans : [d1,d2,d5]
in_subset = false break #f no point to continue since I needs to hau	ve all tags in q
if in-subset: result-append (d) # pass all tag tests which mean this	d's tags 6 9
return result	
Complexity: O(n²)	
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Smarter? (look at the data structure in another way where class is tag) Foiled		
Smarter? (look at the data structure in another way where class is tag) Foiled Class t - has I variable · (docs) - Class doc, doc has I variable · norme - identifier of the document		
·		
The magic happens during the creating of document (insertion)		
Idea: instead of thinking documents with tags attached, it's each tag contain what document		
Back to docs = {d, d2, d3, d4, d5} tags = {t, t2, t3, t4, t5, t6}		
Dack to $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
Then to find d_2 with $q=\{t_2,t_3\}$, convert those tags list to tag sets and find intersection of $q's$ elements		
$\Rightarrow t_2 \wedge t_3 = (d_1, d_3, d_4, d_5) \wedge (d_1, d_2, d_4) = (d_1, d_4)$		
Complexity: O(n) should be Problem: Consume lots of space & unique identifier for documents required		
This solution is assuming 1914 distags which is not the problem suggests in the first place		
(misread the problem oops)		