



# Programming Assignment: Word Translation


✔ Passed · 9/11 points

**Deadline** The assignment was due on Sep 7, 12:29 PM IST  
You can still pass this assignment before the course ends.

Launch Notebook

Instructions   My submission   Discussions

## ← Assignment: Word Translation



### Sign of zero dot product in UNQ\_C20

**Kurt Smith** · Assignment: Word Translation · 2 months ago · Edited

In UNQ\_C20 I noticed that I get a very different, and unbalanced, hash table (over 1,000 vectors at key 0) if I use this:

```
1 h = {(sign_of_dot_product>0)}
```

instead of this:


```
1 h = {(sign_of_dot_product>=0)}
```


in UNQ\_C17. Am I interpreting this correctly that it means a lot of vectors actually lie on the planes? Not 'wrong' per se, but it seems like it would be preferable to use a hash function that is not so sensitive to this (i.e. different planes).

↑ 6 Upvotes

💬 Reply

Follow this discussion

	Earliest	Top	Most Recent
BW	<div><b>Ben Winter</b> · a month ago · Edited</div> <p>Many thanks for this question, this had me confused for hours. Changing the equality was key.</p> <div><div>↑ 0 Upvotes</div><div>💬 Reply</div></div>		
	<div><b>Miguel Oyarzun</b> · 2 months ago</div> <p>While both cases, '&gt;=' and '&gt;', are arguably valid, only the first will pass the verification test in UNQ_C20. See also <a href="https://www.coursera.org/learn/classification-vector-spaces-in-nlp/programming/qFU3R/word-translation/discussions/threads/ kdeOUUGSyaHXjIFBhsmUA">https://www.coursera.org/learn/classification-vector-spaces-in-nlp/programming/qFU3R/word-translation/discussions/threads/ kdeOUUGSyaHXjIFBhsmUA</a></p> <div><div>↑ 0 Upvotes</div><div>💬 Reply</div></div>		



Reply

Reply