•	- Back Practice Quiz • 30 min	
	Congratulations! You passed! Grade received 90% To pass 80% or higher	o to next item
<	- Back Hashing and Machine Translation Practice Quiz • 30 min	
Tot	ral points 10	
1.	Assume that your objective is to minimize the transformation of X as similar to Y as possible, what would you optimize to get R? $(XR \approx Y)$ Minimize the distance between XR and Y	1/1 point
	Maximize the distance between XR and Y	
\	Hashing and Machine Translation Practice Quiz • 30 min Maximize the dot product between XK and Y	
	 ✓ Correct This is correct. 	
	THIS IS COTTECT.	
	When solving for R , which of the following is true? Hashing and Machine Translation	1/1 point
	Practice Quiz • 30 min Create a forloop, inside the forloop: (initialize R, update the loss, compute the gradient.	
	Initialize R, create a forloop, inside the forloop: (compute the gradient, update the loss)	
	○ Initialize R, compute the gradient, create a forloop, inside the forloop: (update the loss)○ Correct	
\	This is correct. Back Hashing and Machine Translation Practice Quiz • 30 min	
3.	The Frobenius norm of A = $\begin{pmatrix} 1 & 3 \\ 4 & 5 \end{pmatrix}$ is	1/1 point
	7.14	
	✓ Correct7.14	
	- Back Hashing and Machine Translation Practice Quiz • 30 min	
4.	Assume $X\in R^{m\times n}, R\in R^{n\times n}, Y\in R^{m\times n}$ which of the following is the gradient of $\ XR-Y\ _F^2$? $ \bigcirc \ \frac{2}{m}X^T(XR-Y) $	1/1 point
	$igcolon{} rac{2}{m}X(XR-Y)$	
-	$\bigcirc \frac{2}{m}(XR-Y)X$ - Back Hashing and Machine Translation	
	Practice Quiz • 30 min Correct This is correct.	
5.	Imagine that you are visiting a city in the US. If you search for friends that are living in the US, would you be able to determine the 2 closest of ALL your friends around the world?	1/1 point
\	Back Hashing and Machine Translation Practice Quiz • 30 min	
	 ✓ Correct This is correct. 	
	What is the purpose of using a function to hash vectors into values? Hashing and Machine Translation	1/1 point
	Practice Quiz • 30 min Correct	
	This is correct. To not have to spend time comparing vectors with other vectors that are completely different.	
	 ✓ Correct This is correct. 	
\	- Back Hashing and Machine Translation Practice Quiz • 30 min	
	☐ It helps us create vectors.	
7.	Given the following vectors, determine the true statements.	1/1 point
	P: [1] Hashing and Machine Translation	
-	Practice Quiz • 30 min	
	V_2 :	
	$egin{bmatrix} 2 \ 2 \end{bmatrix}$ V_3 :	
\	Fractice Quiz • 30 min - Back Practice Quiz • 30 min	
	$igoplus PV_1^T$ and PV_2^T have the same sign. $ igoplus PV_1^T \text{ and } PV_2^T \text{ are equal in magnitude.} $	
	$igcup PV_1^T$ and PV_3^T have the same sign.	
\	- Back Hashing and Machine Translation Practice Quiz • 30 min	
8.		
	We define H to be the number of planes and h_i to be 1 or 0 depending on the sign of the dot product with plane i. Which of the following is the equation	1/1 point
	We define H to be the number of planes and h_i to be 1 or 0 depending on the sign of the dot product with plane i. Which of the following is the equation used to calculate the hash for several planes. $ \bigcirc \sum_i^H 2^i h_i $	1/1 point
	used to calculate the hash for several planes.	1/1 point
\	used to calculate the hash for several planes.	1/1 point
\	used to calculate the hash for several planes.	1/1 point
\	used to calculate the hash for several planes.	1/1 point
	used to calculate the hash for several planes.	1/1 point
	used to calculate the hash for several planes. (a) $\sum_{i}^{H} 2^{i}h_{i}$ Back Hashing and Machine Translation Practice Quiz \cdot 30 min (b) $\sum_{i}^{H} 2^{h}i$ (c) Correct Correct. Back Hashing and Machine Translation	1/1 point
	used to calculate the hash for several planes. (a) $\sum_{i}^{H} 2^{i}h_{i}$ (b) $\sum_{i}^{H} 2^{i}h_{i}$ (c) $\sum_{i}^{H} 2^{h_{i}}i$ (d) $\sum_{i}^{H} 2^{h_{i}}i$ (e) Correct Correct Correct Correct Correct Practice Quiz • 30 min	1/1 point
	used to calculate the hash for several planes.	1/1 point
	used to calculate the hash for several planes.	1/1 point
	used to calculate the hash for several planes.	1/1 point
	used to calculate the hash for several planes.	0 / 1 point
10	used to calculate the hash for several planes. ② ∑ _t ^H 2 ^t h _t Back	
10	used to calculate the hash for several planes. ② ∑ _i ^R 2 ⁱ h _i Back	
10	used to calculate the hash for several planes. ② ∑ _i ^{II} 2 ⁱ h _i Back Hashing and Machine Translation Practice Quiz - 30 min ② Z _i zun; ③ Correct Correct. Back Hashing and Machine Translation Practice Quiz - 30 min ③ PCA ③ Approximate Nearest Neighbors ④ Correct This is correct. Back Hashing and Machine Translation Practice Quiz - 30 min ④ Correct This is correct. Hash tables are useful because □ Useblan and Machine Translation Practice Quiz - 30 min This is correct. □ This is correct. □ Speed up look up	
10	used to calculate the hash for several planes. (a) ∑ _i ^H 2 ⁱ ½ i (b) Eack Hashing and Machine Translation Practice Out 2-30 min (c) ∑ _i ^H 2 ^k ½ (c) Correct Correct. (d) Hashing and Machine Translation Practice Out 2-30 min (e) DCA (f) Approximate Nearest Neighbors (g) Correct This is correct. (hashing and Machine Translation Practice Out 2-30 min (g) Correct This is correct. (hashing and Machine Translation Practice Out 2-30 min (g) Correct This is correct. (hashing and Machine Translation Practice Out 2-30 min (g) Correct This is correct. (g) Severed This is correct.	
10	used to calculate the hash for several planes. ② Ent 2th, Back Hashing and Machine Translation Practice Quiz - 30 min ② Correct Correct. Back Hashing and Machine Translation Procide Quiz - 30 min ③ Procide Quiz - 30 min ③ Correct This is correct. Back Hashing and Machine Translation Procide Quiz - 30 min ④ Correct This is correct. Back Hashing and Machine Translation Procide Quiz - 30 min ④ Correct This is correct. Hash tables are useful because Machine and Machine Translation Procide Quiz - 30 min ⑤ Correct This is correct. Hash is because Machine and Machine Translation Procide Quiz - 30 min This is correct.	