



You are taking "Final Exam (8 hour time limit)" as a timed exam. [Show more](#)

End My Exam

07:39:35

< Previous	✓	✓	✓	✓	✓	✓				Next >
------------	---	---	---	---	---	---	--	--	--	--------

Problem 7

🔖 Bookmark this page

Problem 7-1

0/3 points (graded)

Answer the next questions on machine learning, related to the following data. Consider the following 6 people who are either happy or unhappy and the data we know on them:

	Person 1	Person 2	Person 3	Person 4	Person 5	Person 6
Happy/Unhappy	happy	happy	happy	unhappy	unhappy	unhappy
Income (dollars)	10k	30k	90k	100k	120k	60k
Distance from North Pole (miles)	4k	10k	5k	1k	1k	6k
Continents Visited	Europe	Europe	Europe	Europe	Europe	Europe
Age	25	19	26	57	60	40

1. Using the Manhattan distance and looking only at "Income" and "Distance from North Pole", which two people are closest and farthest?

- ☐ closest: Person 1 and Person 2 ||| farthest: Person 4 and Person 5
- ☒ closest: Person 4 and Person 5 ||| farthest: Person 1 and Person 5
- ☐ closest: Person 4 and Person 5 ||| farthest: Person 5 and Person 6
- ☐ closest: Person 3 and Person 4 ||| farthest: Person 5 and Person 6
- ☐ closest: Person 3 and Person 4 ||| farthest: Person 1 and Person 5



Submit

You have used 1 of 1 attempt

✖ Incorrect (0/3 points)

Problem 7-2

3/3 points (graded)

If we were to cluster the people, the inclusion/exclusion of which feature would never impact the final clusters?

- ☐ Happy/Unhappy
- ☐ Income
- ☐ Distance from North Pole
- ☒ Continents Visited
- ☐ Age



Submit

You have used 1 of 1 attempt

Calculator



edX

- [About](#)
- [Affiliates](#)
- [edX for Business](#)
- [Open edX](#)
- [Careers](#)
- [News](#)

Legal

- [Terms of Service & Honor Code](#)
- [Privacy Policy](#)
- [Accessibility Policy](#)
- [Trademark Policy](#)
- [Sitemap](#)

Connect

- [Blog](#)
- [Contact Us](#)
- [Help Center](#)
- [Security](#)
- [Media Kit](#)

