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# CSE 20 Discussion

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# Agenda

- Reminders / Logistics
- Reading Quiz Questions
- Homework Questions (if time allows)

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## Reminders

- #FinAid
- Schedule T1A1, T2A1 at PrairieTest
- Reading Quiz 1 is due at 11:59pm tonight
- Reach out to homework group
- Homework 1 is due Thursday at 5pm, late due on Friday 8am.



# Practice Questions

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## Reading Quiz 1.4

Basis Step:  $9 \in \mathbb{Z}$

Recursive Step: If  $x \in \mathbb{Z}$ , then  $x + 5 \in \mathbb{Z}$  and  $x - 4 \in \mathbb{Z}$

What if instead of  $x + 5$  and  $x - 4$ , we have  $x + 2$  and  $x - 4$ ? Is it still possible to get  $\mathbb{Z}$ ?

Challenge: What other numbers can you use and still end up with  $\mathbb{Z}$ ? Can you exactly characterize this?

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## Extra Practice (might be useful)

Let  $A$  be a set of strings,  $A = \{a, aa, b, ab\}$  over the alphabet  $\{a, b\}$ . Let  $E$  be the empty set,  $E = \{\}$ .

What is the result of set-wise concatenating  $A$  and  $E$ ?

Hint: refer to the definition of set-wise concatenation.