

Announcements

- GitHub Workshop
- Exam Info
- Word shortcuts

Translation

1. Getting started / If stuck

- Try to rephrase what you want to say using the words

"Every..." $\Rightarrow \forall$ "There exists..." $\Rightarrow \exists$
 "Not all..." $\Rightarrow \neg \forall$ "There is not a..." $\Rightarrow \neg \exists$

- Just write down something. It probably will have errors

2. Checklist

- Specify Domain for quantifiers $\exists x \in \mathbb{Z}$
 \uparrow
 Domain
- Check type of every symbol to check for Grammar errors
- Check "edge cases" to make sure you've fully captured meaning (e.g. $x \neq y$). If missing something

Checklist Continued:

- Check that you have NOT quantified predicate input variables
- Check that you HAVE quantified all other variables you introduce

Proof Tips

If mathy \rightarrow try to get to an equation

If wordy \rightarrow try to explain in words first, if not working, switch to math.

For contradiction \rightarrow Try a small example:

Party Trick with 3 people

| Person | 1 | 2 | 3 |
|----------------|---|---|---|
| # PPL Taked To | 0 | 1 | 2 |