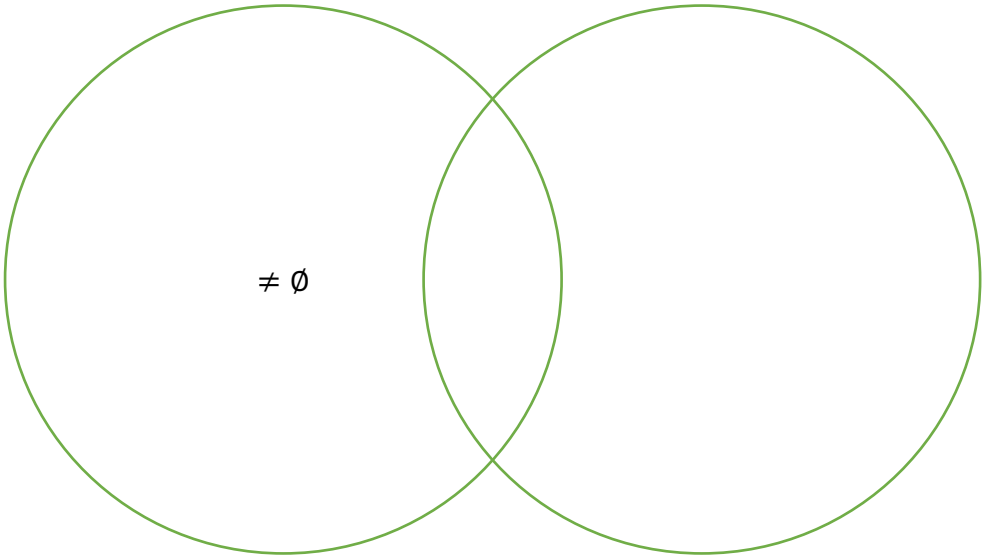
8. $A - B \neq \emptyset$

$\neg\exists\, x\ (x \in A - B)$

A: Person living in Seattle, make at least 45000 and have at least one skill

B: All people that pid Knows

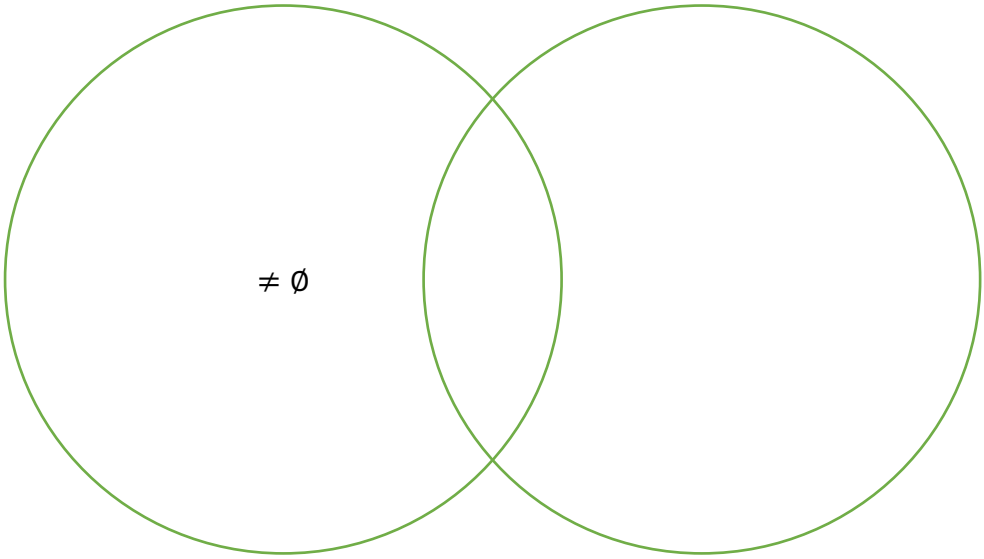


9. $A - B \neq \emptyset$

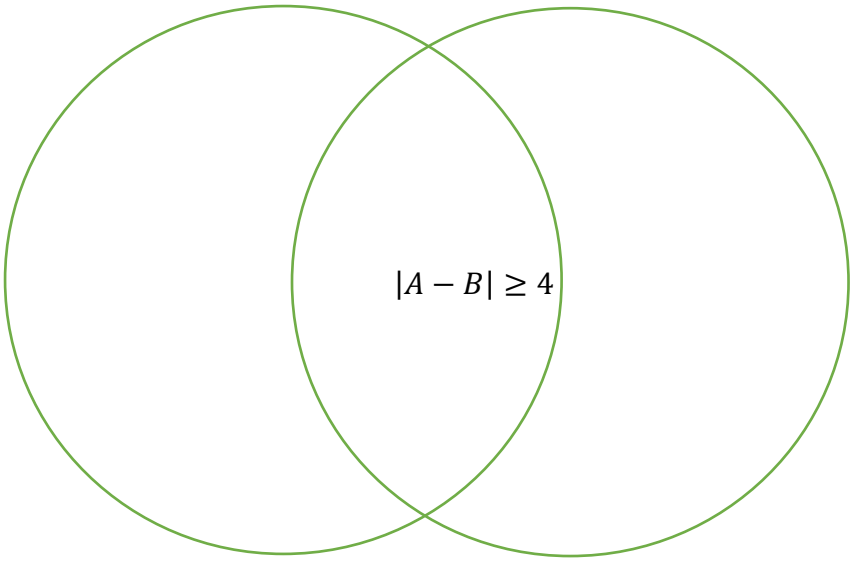
$\neg\exists\, x\ (x \in A - B)$

A: All managers at the company

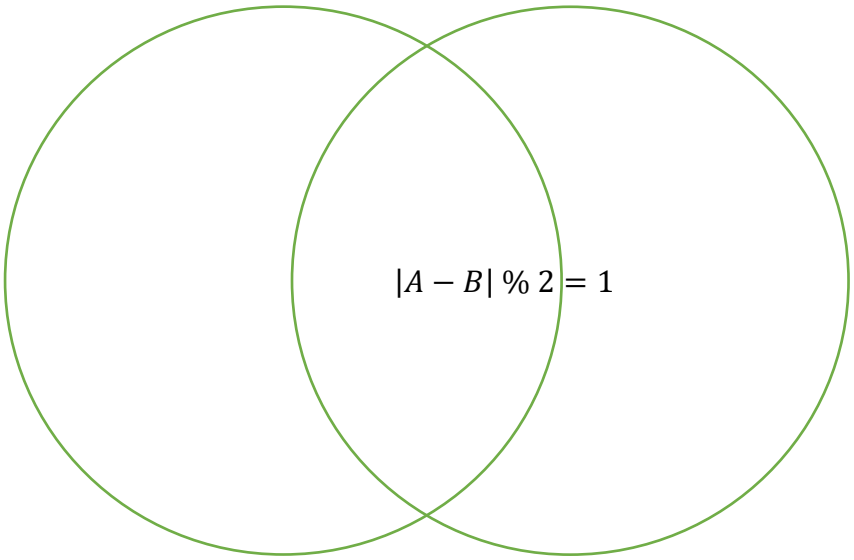
B: All managers that make more than 50000



10. $|A - B| \geq 4$
A: People with at most 2 skills
B: People who pid knows



11. $|A - B| \ \% \ 2 = 1$
A: All employees that are employed at a Company
B: All employees that work at a company where there are at least two employees that make ≥ 55000



12. $A - B \neq \emptyset$

$\neg\exists\ x\ (x \in A - B)$

A: Skill count of Person, p1

B: Skill count of Person, p2

Output: All pairs (p1, p2) where p1 and p2 are different