

- (2) John and Mary are married
- i) $\text{marry}(\underline{j}, \underline{m}) \Rightarrow \text{marry}(\underline{m}, \underline{j})$
 $\Rightarrow \text{marry}(\underline{j}, \underline{m})$
 - ii) $\exists_x \text{marry}(\underline{j}, \underline{x}) \wedge \exists_y \text{marry}(\underline{j}, \underline{y})$

it can be that John and Mary are married to each other or to another person.

→ also, in the first case, John is married to Mary and Mary is ... to John have the same meaning.

- (3) Five examiners marked six scripts

→ It can be that five examiners checked six scripts one by one together

→ or, one examiner checked two scripts and the rest checked one each.

- i) mark ($\{e_1, \dots, e_3\}, \{s_1, \dots, s_8\}$)
- ii) mark ($\{e_1, \dots, e_5\}, s_1$) \wedge
 $\dots \wedge$ mark ($\{e_1, \dots, e_5\}, s_8$)
- iii) mark ($e_1, \{s_1, \dots, s_7\}$) \wedge
 $\dots \wedge$ mark ($e_5, \{s_1, \dots, s_7\}$)
 Rule \Rightarrow mark (e_1, s_1), mark (e_1, s_2) \dots

(c) John kissed his wife, so did Sam.
 \rightarrow Both may have kissed the same person
 \rightarrow or two different persons.

- i) $\exists x (\text{kiss}(\text{sam}, x) \wedge \text{wife-of}(x, \text{John}))$
- ii) $\exists x (\text{kiss}(\text{sam}, x) \wedge \text{wife-of}(x, \text{sam}))$

(d) John paints Mary more often than Sam.

- i) paints-less (j, s)
ii) paints-less (s, m)
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(e) Paul wants to buy a poodle

→ Either Paul wants to buy a specific poodle or just any poodle

$$\exists x (\text{poodle}(x) \wedge \text{buy}(x, \text{Paul}))$$

$$\checkmark \forall x (\text{poodle}(x) \wedge \text{buy}(x, \text{Paul}))$$

f) Smith's murderer must be insane

→ The speaker doesn't know who murdered Smith but assumes that person to be insane

(3) John often wins on Sunday

→ John is more likely to win something on Sundays.

(4) I love you too

→ love a person like they love me

→ love a person like somebody else

②

a) Lee is singing and she met Luc.

b) A man loves a woman who doesn't love herself.

③

a) i) The week after the current one

ii) any of the seven days after today

iii) a specific day from the 7 days after today

b) comes next week and not this

$$\frac{e}{t < n < t'}$$

c) yesterday. Paul will come

$$\exists_{\tau} \exists_{\tau'} \exists_e (\text{come}(e, \text{paul}) \wedge e \subseteq t \wedge n < t \\ \wedge \text{DAY}(t) \wedge \text{DAY}(t') \wedge \\ n \subseteq t' \wedge t < t' \wedge \\ - \exists_{t''} (\text{DAY}(t'') \wedge t < t'' < t'))$$

$$e \subseteq t \wedge n < t \wedge n \subseteq t' \wedge t < t'$$

$$e \quad \nearrow \\ (t) > (n) < t' \quad \text{inconsistency}$$