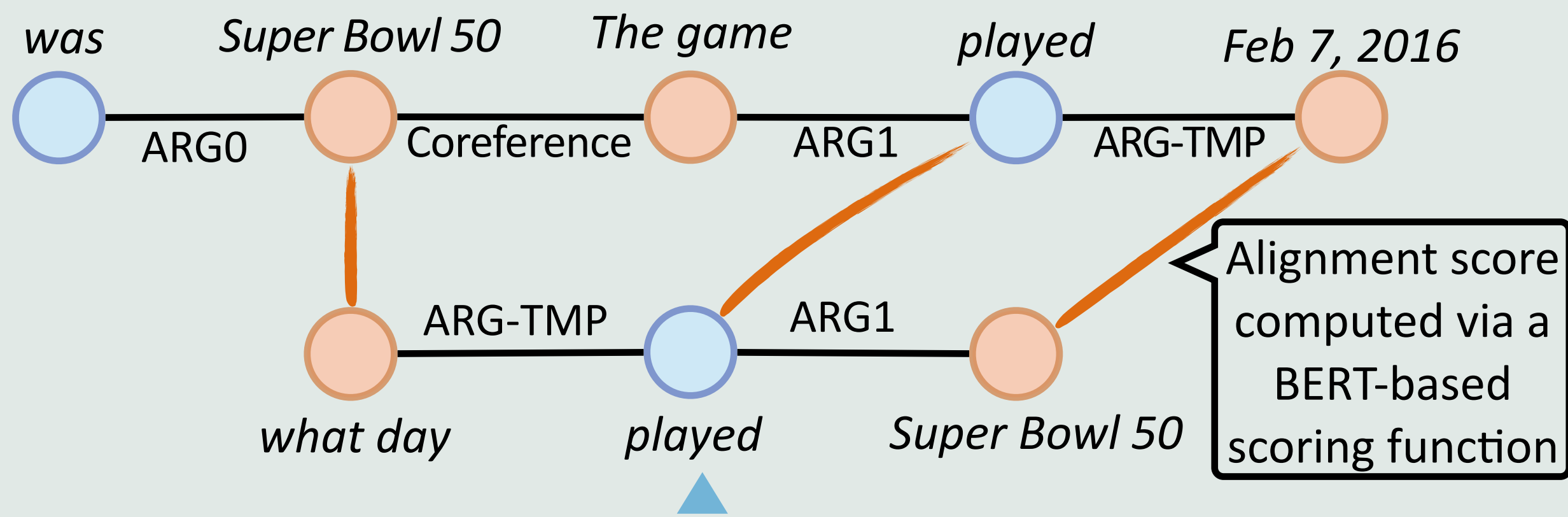


## Approach

### Make QA explicit by aligning sub-parts

**Context:** Super Bowl 50 was ... The game was played on Feb 7, 2016

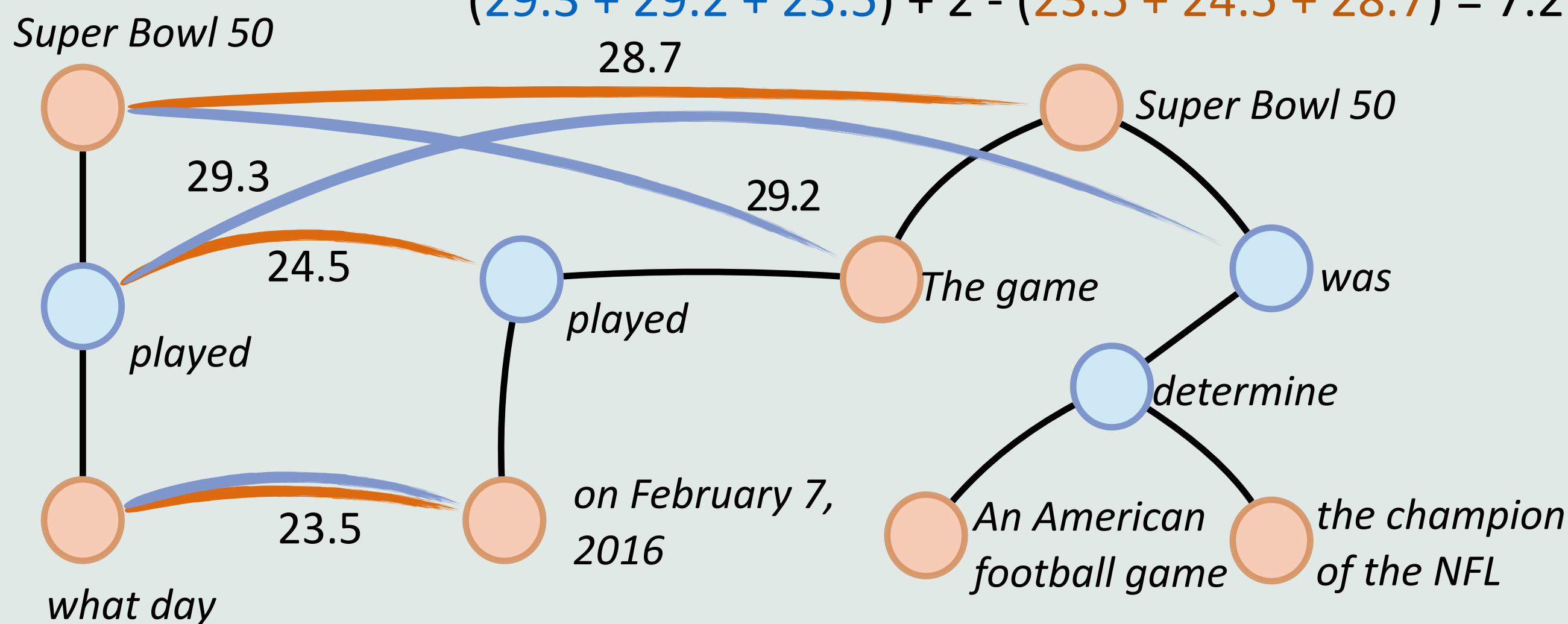


**Question:** What day was Super Bowl 50 played on?

### Train as an instance of SSVM

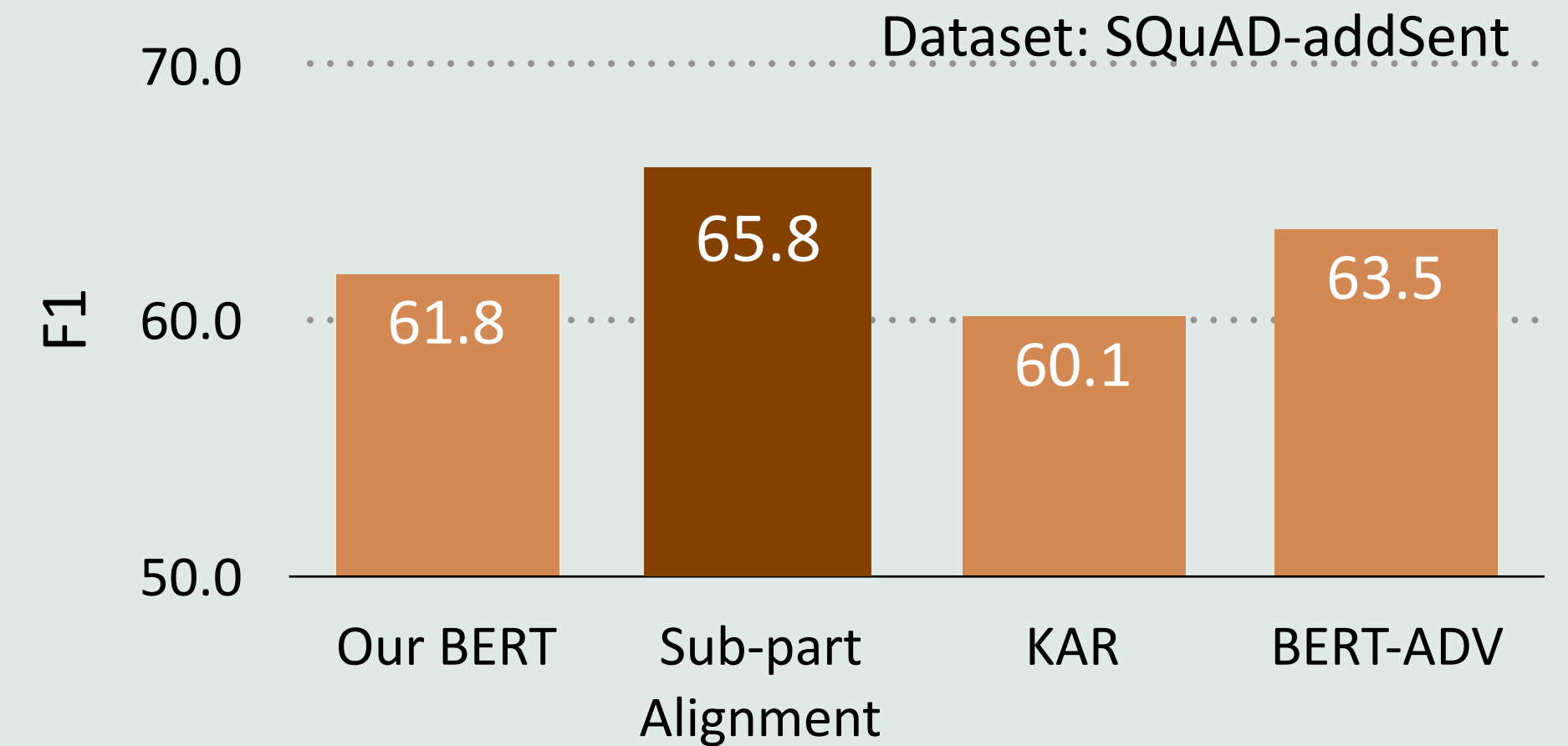
$$L = \max(0, \max(0, \text{predicted score} + \text{Hamming loss}) - \text{gold score})$$

$$(29.3 + 29.2 + 23.5) + 2 - (23.5 + 24.5 + 28.7) = 7.2$$



## What can the model do?

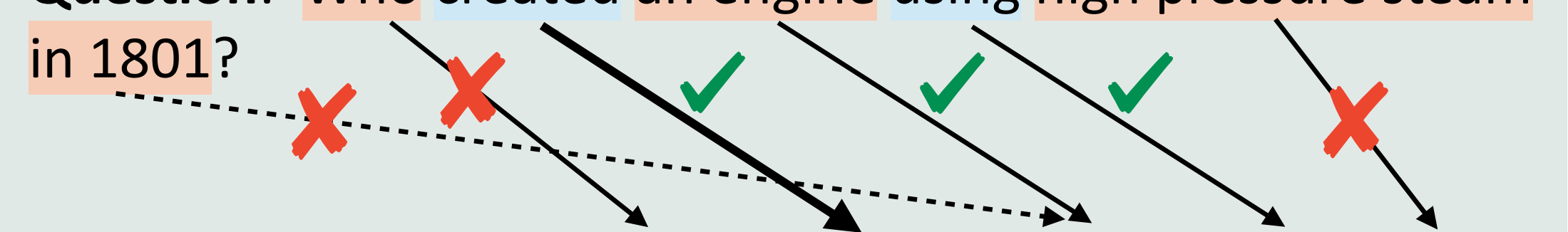
### Improve adversarial robustness



### Find the unreliable alignment

**Question:** Who created an engine using high pressure steam in 1801?

**Adversarial context:** Jeff Dean created an engine using low pressure steam in 1790.



### Trade coverage for performance

