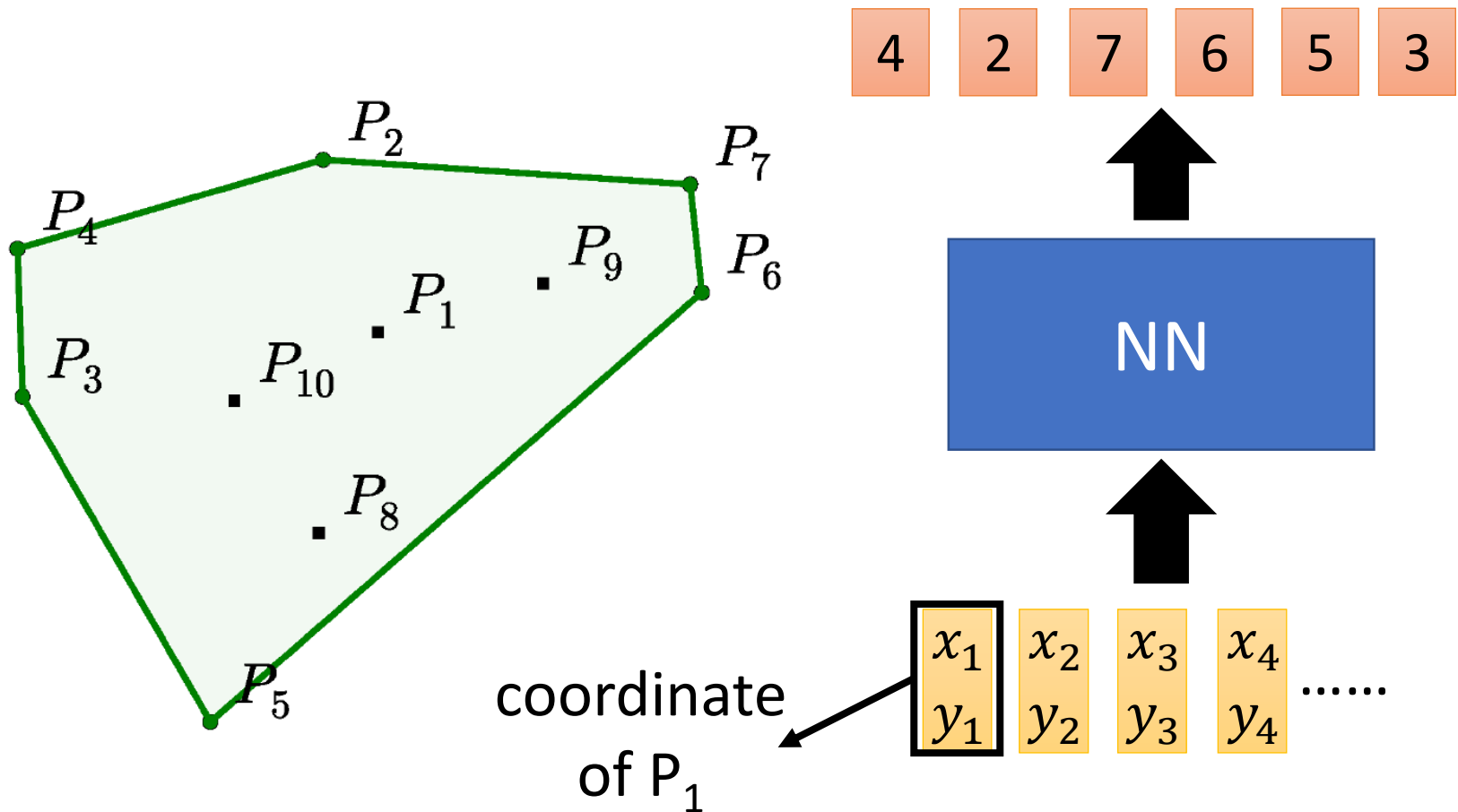
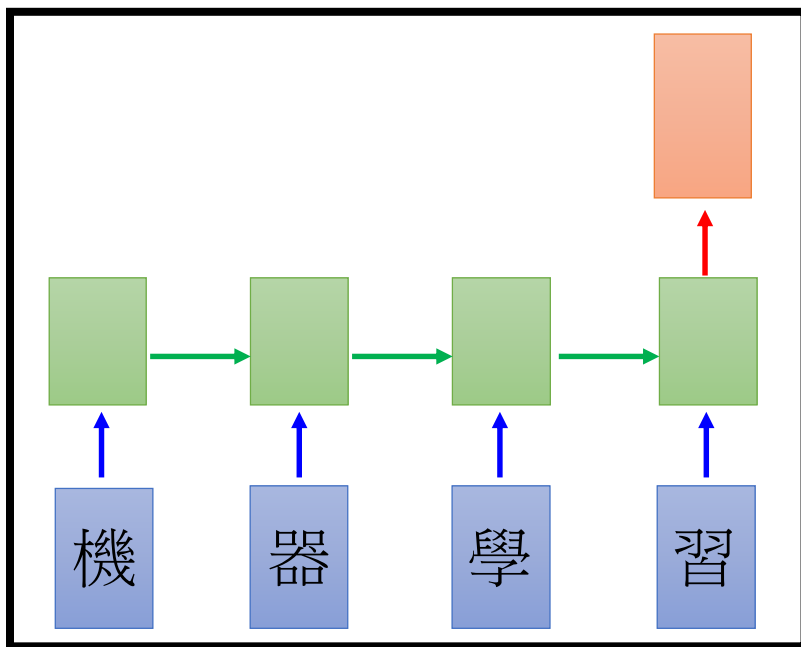
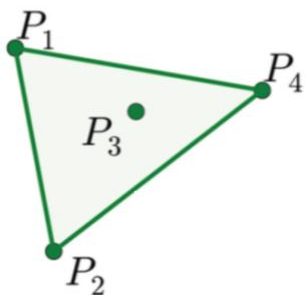


Pointer Network

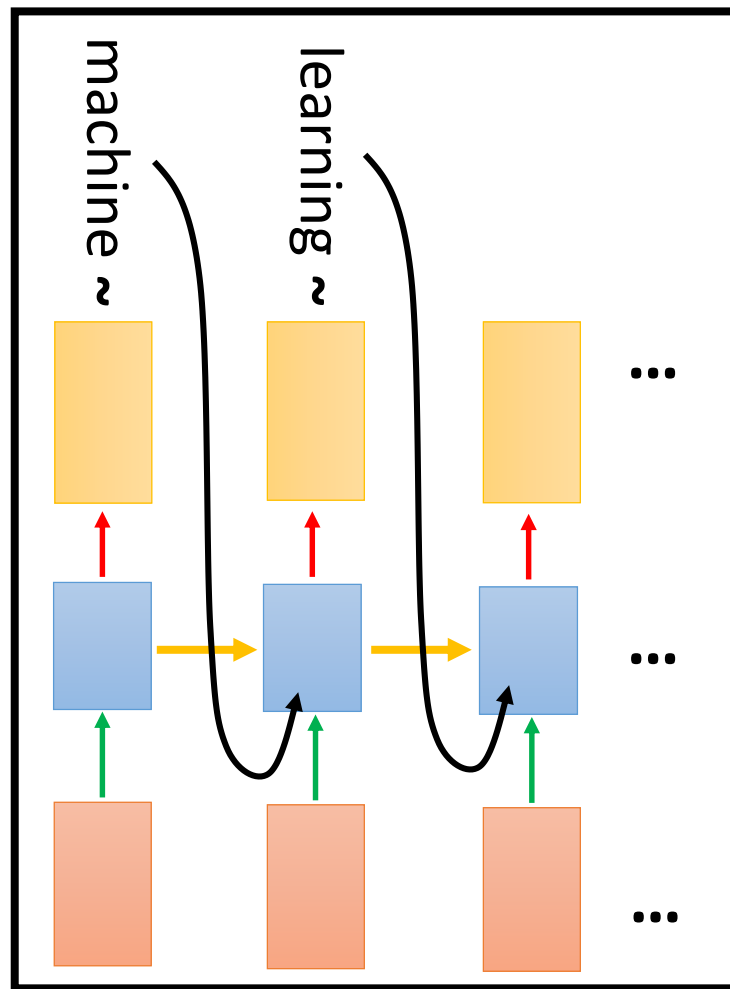
Pointer Network



Sequence-to-sequence?



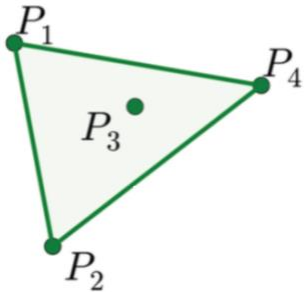
Encoder



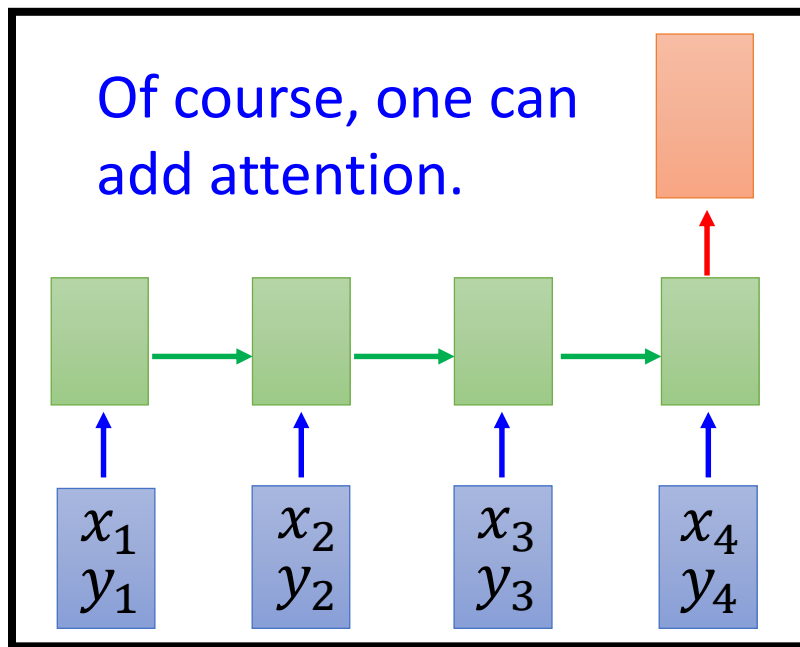
Decoder

Problem?

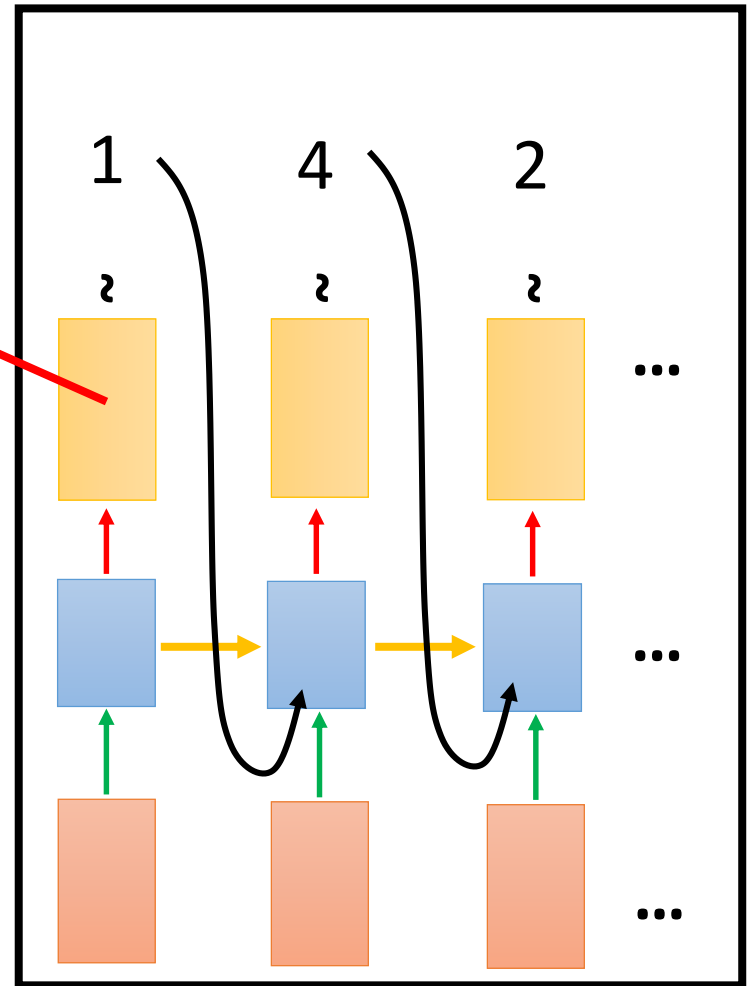
Sequence-to-sequence?



{1, 2, 3, 4, END}



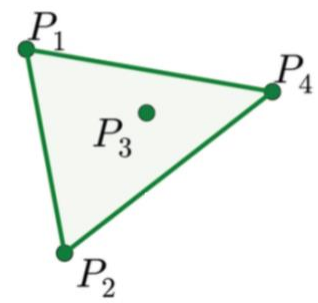
Encoder



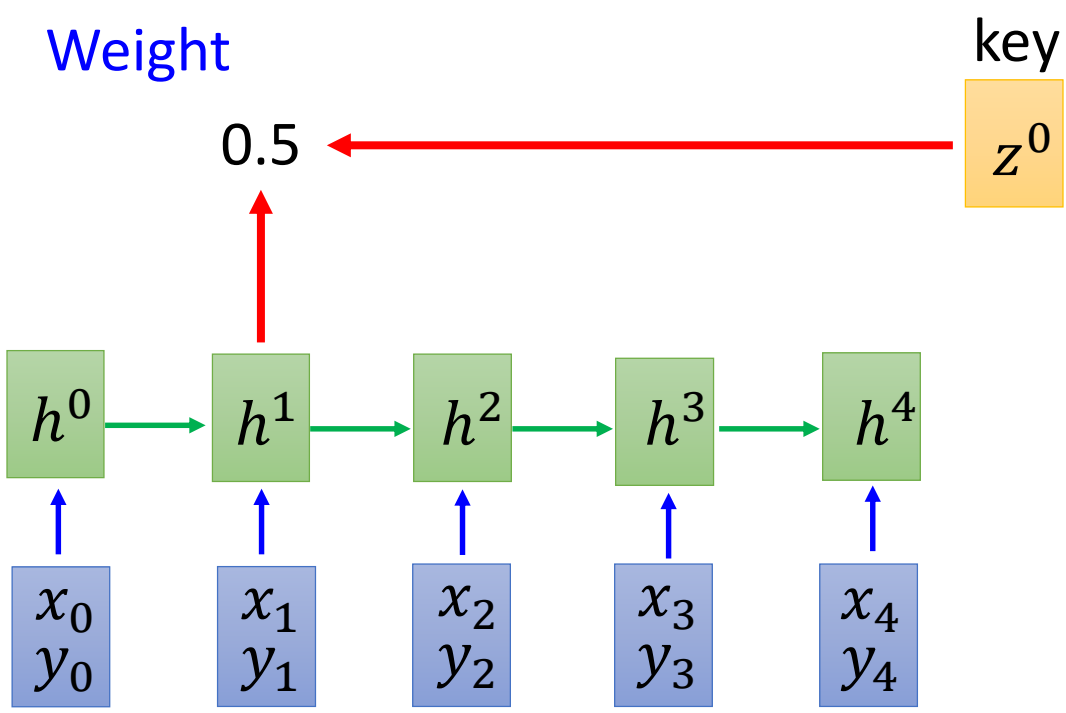
Decoder

Pointer Network

x_0
 y_0 : END

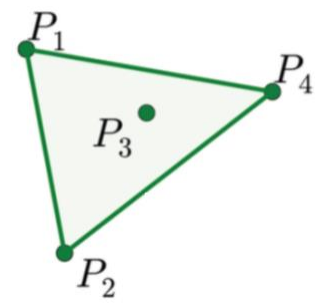


Attention
Weight



Pointer Network

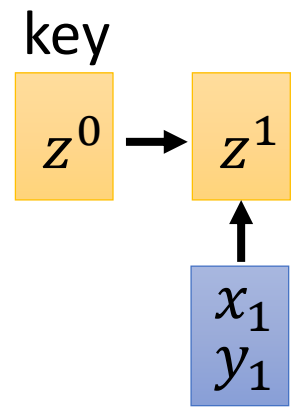
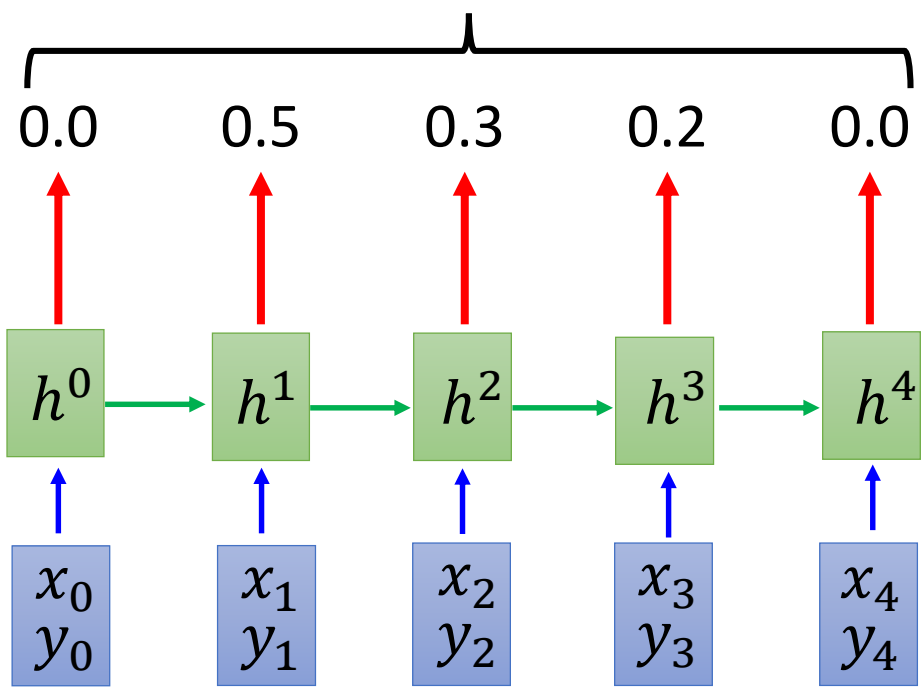
x_0
 y_0 : END



Output: **1**
?

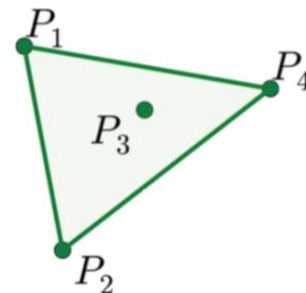
argmax from this distribution

What decoder can output depends on the input.



Pointer Network

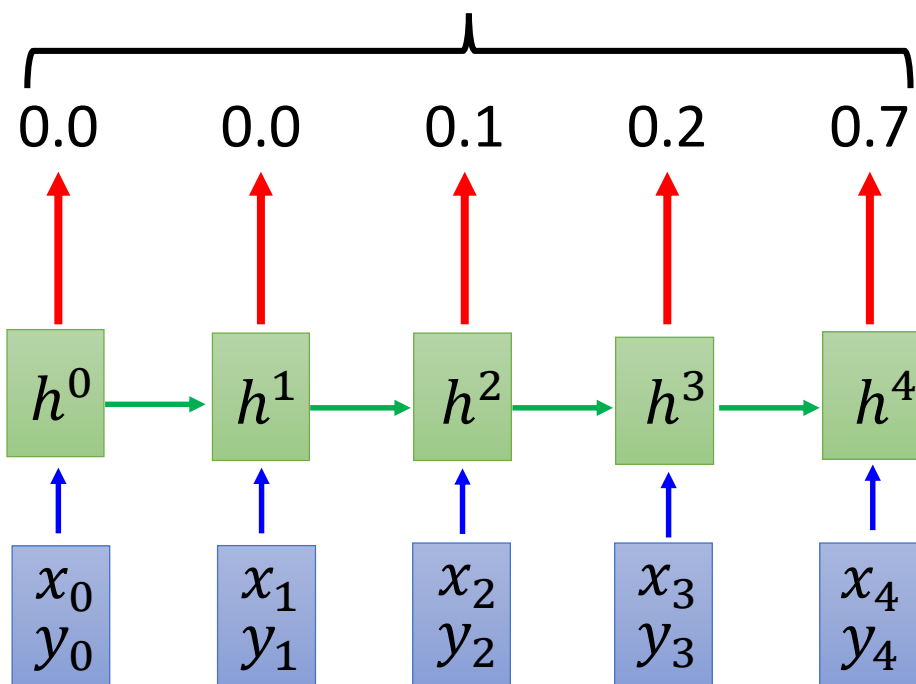
x_0
 y_0 : END



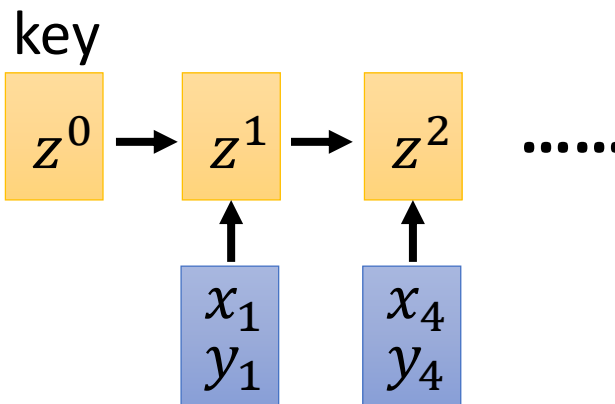
Output: **4**

?

argmax from this distribution

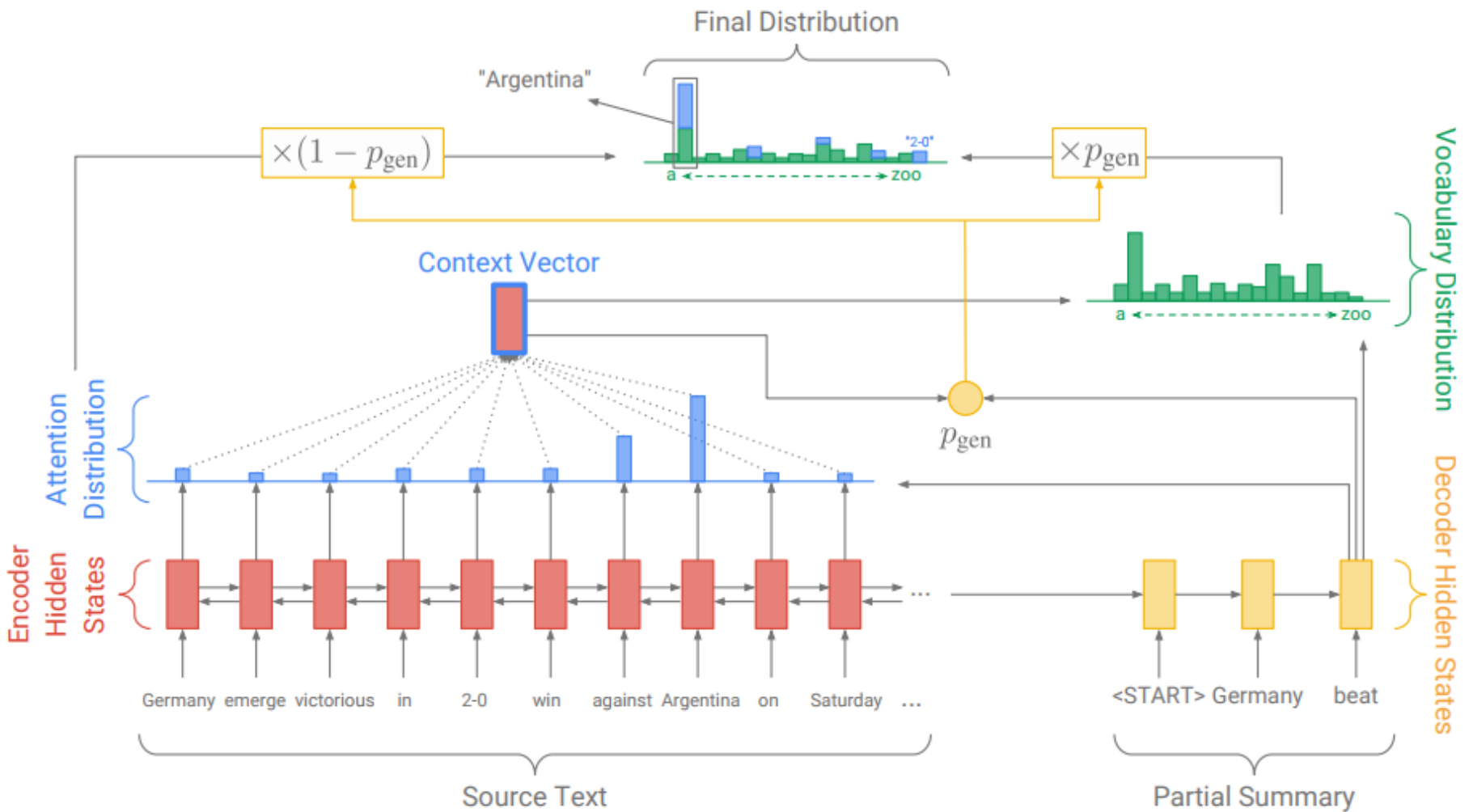


What decoder can output depends on the input.



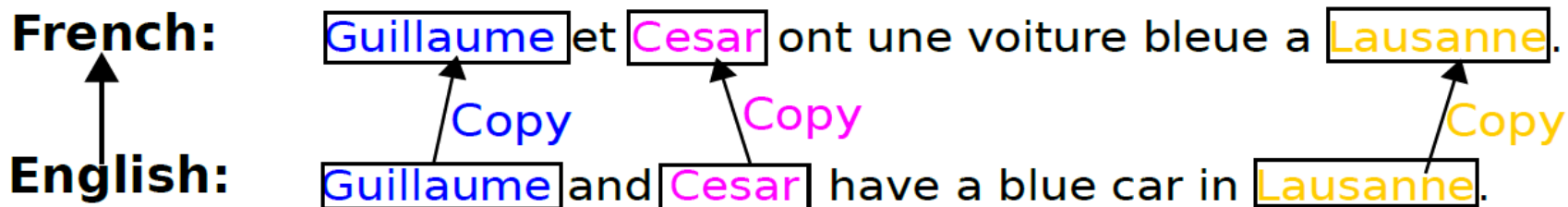
The process stops when "END" has the largest attention weights.

Applications - Summarization



More Applications

Machine Translation



Chat-bot

User: X寶你好，我是庫洛洛

Machine: 庫洛洛你好，很高興認識你