Question 1

Meme No. Date

Mo Tu We Th Fr Sa Su

(1) (H-M+1) x (W-N+1)

· B ME RHIN' HW

H' = H - M + 1

W' = W - N + 1

Z' = M' · X'

let's assume there is a matrix MER H'N'XHW such that z'= Mx' if we assume that the elements of the matrix M are equal in each row, then each jth element of ith row will be equal to AAAAM Mij = Zi

© convolutional_network
M×N

fully connected network $(N \times W \times (H-M+1) \times (W-N+1)) + ((H-M+1) \times (W-N+1))$

first one

(2) Q z x' · Wq z x' K z x' · Wk z x'

 $V = x' \cdot Wvz x'$ $Att-prob = softmax \left(\frac{Q \cdot K^{T}}{\sqrt{mx'}}\right)$

Att-out = softmax (QK).V