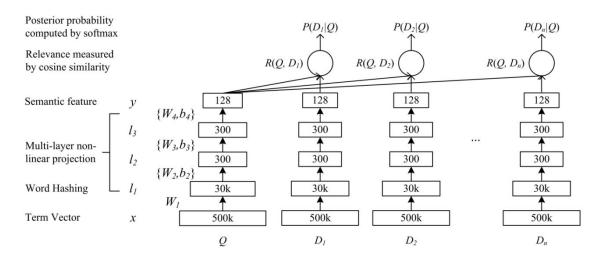
Summary



- 1. Bags of word for query and documents transform to the bags of n-grams input vectors.
- 2. By the 1^{st} layer l1 the input vectors are convoluted.
- 3. l2 l3 fully-connected (? #полносвязные) layers.
- 4. Another conclution to 128 dim for better training results.
- 5. Calculate the cosine similarity between query vector and each of documents.
- 6. Calculate the softmax output of the model: P(D|Q) = softmax(yP), y = const. (for all pairs Q : relevant documents + 4 unclicked documents)
- 7. Train the model by minimize $-\log[\prod_{all\ pairs\ Q:relevant\ documents}P(D|Q)]$.