



query: $q(t_1, t_2, \dots, t_n)$ ①

⑥ results: title, url, snippet

Frontend Web Servers

Forward query q ②

d_1, \dots, d_k ③

q, d_1, \dots, d_k ④

r_1, \dots, r_k ⑤

X1: read each inverted list L_i of t_i from disk

X2: decompress each list L_i

X3: list intersection $L_1 \cap L_2 \cap \dots \cap L_n$

X4: ranking \rightarrow top- k docIDs: d_1, d_2, \dots, d_k

Index Servers

S1: read each document (referred by d_i) from disk

S2: generate each query-specific snippet r_i based on q and document

Document Servers