

index directory

IndexSearcher (DirectoryReader)
 → passed query parsed by QueryParser
 → search (query, 10)

→ search (query, null, 10)
 → filter
 → query + filter → filtered Query
 → filteredQuery, createWeight

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{ → All types of query as each has different definition for createWeight.

→ createWeight (IndexSearcher)
 → IndexReaderContext context = indexSearcher.getContext()
 → Two possibilities - AtomicReaderContext, CompositeReaderContext

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→ Make TermContext from context
 → AtomicReaderContext from context. leaves ()

d → Atomic Reader from AtomicReaderContext
 • It has four possibilities:
 - Filter Atomic Reader
 - Parallel Atomic Reader
 - Segment Reader
 - Slow Composite Reader

↳ Segment Reader - fields() → fields.

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↳ Fields has three possibilities.

- FieldsProducer → BlockTree Terms Reader
- Filter Atomic Reader - Filter Fields
- MultiFields

↳ MultiFields.term → terms

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↳ terms has three possibilities.

- BlockTree Terms Reader, Field Reader
- Filter Atomic Reader, Filter Terms
- MultiTerms

↳ MultiTerms.iterator() → termsEnum

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↳ termsEnum has 6 possibilities.

- Filter Atomic Reader, Filter TermsEnum
- Filtered TermsEnum
- Fuzzy TermsEnum
- Multi TermsEnum
- Sorted Doc Values TermsEnum
- Sorted Set Doc Values TermsEnum

↳ TermsEnum.seekExact → TermState

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↳ seekExact has six possibilities to be in

- BlockTree Term Reader
- Lucene 42 Doc Value Producer
- Sorted Doc Values Term Enum
- Sorted Set Doc Values Term Enum
- TermsEnum
- Fuzzy TermsEnum