

# reciprocalRankFusion

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## reciprocalRankFusion

**Kind:** Function

**Source:** `atloria-monorepo/libs/agent-core/src/semantic/hybrid-search.ts`

Merge BM25 and vector search results using Reciprocal Rank Fusion.

### Signature

```
function reciprocalRankFusion(
  bm25Results: RankedItem[],
  vectorResults: RankedItem[],
  topK: number,
  k: number
): SearchResult[]
```

### Parameters

| Name                       | Type                      |
|----------------------------|---------------------------|
| <code>bm25Results</code>   | <code>RankedItem[]</code> |
| <code>vectorResults</code> | <code>RankedItem[]</code> |
| <code>topK</code>          | <code>number</code>       |
| <code>k</code>             | <code>number</code>       |

**Returns:** `SearchResult[]`