

Project_Part2

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Conclusion:

α is less than the minimum sum of upper bounds of terms in the documents in top_k.

Prove:

After modification, α became a constant and will not be compared with score any more in the pseudo code.

While α still has to be compared with tmp_s_lim, which record the sum of upper bounds of terms in candidates list. (Line 14 in pseudo code)

If α is a litter bit larger than minimum sum of upper bounds, some candidates could not pass the threshold.

If α is smaller than minimum sum of upper bounds, extra terms which have low weight cannot be filtered.