* KBPImplie System Notes
* ----------------------------
  + tagger: val tagger = TaggerLoader.extendedKeywordHighRecallTagger
  + ire: val relationExtractor = new ModHighRecallImplIE(tagger)
  + substitute relations PER
    - nationality -> per:origin, per:countries\_of\_residence
    - city -> per:cities\_of\_residence
    - province -> per:statesorprovinces\_of\_residence
    - jobtitle -> per:title
    - religion -> per:religion
    - school -> no substitution
  + substitute relations ORG
    - nationality -> org:country\_of\_headquarters
    - city -> org:city\_of\_headquarters
    - province -> org:province\_of\_headquarters
    - jobtitle -> org:top\_members\_employees, if org name in entity string, jobtitle is on topMemberJobTitles list, and there is a person in the entityString
    - religion -> org:political\_religious\_affiliation
    - school -> no substitution
  + relevant docs - contain exact string match to query name or to one of the aliases
    - per aliases = fmls -> fml,fl, fml -> fl, fls -> fl
  + relevant sentences
    - < 400 in string length
    - contains query name or one of the aliases (not followed by a word character) or
    - contains a coref mention name of type PROPER from a coref chain containing the query name or one its aliases
  + relevant extractions
    - arg1 contains query name or one of the aliases, or
    - arg1 contains a coref mention and at least of the query name tokens is in the entity string
  + select best answers
    - first sort the candidates by their frequency
    - case 1: take the first on the sorted list
    - case 9: take all with unique arg2 names