

WikiRacer Project

Problem statement

Wikiracing is a game that people play on Wikipedia. Given a starting article and an ending article, the objective of a wikirace is to get from the starting article to the ending article by only clicking on links occurring in the main bodies of wikipedia articles (not including the side navigation bar or the category footer).

Write a wikiracing bot, which will take race specifications in the form of a JSON object:

```
{
  'start': '<starting article>',
  'end': '<ending article>'
}
```

and which will return the results of the race in the form of a JSON object:

```
{
  'start': '<starting article>',
  'end': '<ending article>',
  'path': [
    '<starting article>',
    '<article at step 1>',
    '<article at step 2>',
    .
    .
    .
    '<article at step n-1>',
    '<ending article>'
  ]
}
```

Each article will be identified with a fully expanded URL. So, for example, the Wikipedia article about “World War II” will be represented by the URL https://en.wikipedia.org/wiki/World_War_II

Example

This is an example run of a wikirace executable with output:

```
$ ./wikirace '{
  ''start'': ''https://en.wikipedia.org/wiki/Malaria'',
  ''end'': ''https://en.wikipedia.org/wiki/Geophysics''
}'
{
  ''start'': ''https://en.wikipedia.org/wiki/Malaria'',
  ''end'': ''https://en.wikipedia.org/wiki/Geophysics'',
  ''path'': [
    ''https://en.wikipedia.org/wiki/Malaria'',
    ''https://en.wikipedia.org/wiki/Agriculture'',
    ''https://en.wikipedia.org/wiki/M.\_King\_Hubbert'',
    ''https://en.wikipedia.org/wiki/Geophysics''
  ]
}
```

Deliverables

Please submit the following, either attached to the e-mail or zipped together:

- Your code solving the problem - it must adhere to the spec above
- Instructions on how to run it and install any dependencies needed
- A document describing and justifying the approach(es) used in the solution and suggestions for future improvement