

Testing plan:

Function testing :

If can not modify the binary file :

1. When Google returns 200, check outputs, and check if request really sent to Google and really get Google's response
2. When Google returns other common status code like 301 , 302 , 304 , 401 , 403 , 404 , 500 , 504 instead of 200, check outputs
3. When the network is disconnected, check outputs
4. When the network connection timeout, check outputs
5. When DNS error happens, check outputs
6. Run the file directly, check if it can terminate automatically after running
7. Run the file by command line, check if it can terminate automatically after running

If can modify the binary file :

8. Test other endpoints like Youtube, Baidu with different status codes
9. Test other http methods like post, put
10. Test other request type excluding http

Performance testing :

If can not modify the binary file :

1. Run multiple files at the same time, check all running status and outputs of them
2. Run file multiple times over a period of time, check running status and output every time
3. Run file in a low speed connection, check outputs
4. Run file in a high delay connection, check outputs

If can modify the binary file :

5. Request multiple endpoints at the same time in one file, check outputs and running status

Compatibility testing :

1. Execute file in different devices like mobile, labtop and PC
2. Execute file in devices with different models like Apple, Samsung and HUAWEI
3. Execute file indifferent OS like windows , linux , IOS , AOS
4. Execute file in same OS with different versions