Write a function (web service) that receives JSON as input and writes a single string to a file to a disk.

Each time the function is called, it may write to a different file - the decision which file to use is described below.

The input JSON looks as following (example):

|  |
| --- |
| {  "logFile": "A.log", //default  "logLimit": 200,  "ab\_test": {  "enabled": true,  "variants": [{  "variantName": "A",  "percentage": 60  }, {  "variantName": "B",  "percentage": 40,  "logFile": "B.log"  }  ]  } } |

The name of the file appears in the “logFile” field. Writing to “logFile” is limited to “logLimit” rows.

If AB Test is disabled ("enabled": false), write “NA” to the default file.

If AB Test is enabled: the function should choose a variant “randomly” based on the ‘percentage’ value in JSON. In the example, in 60% of the time it should use variant A, and in 40% variant B (statistically).

If “logFile” is not defined in a variant, use default one.

You should write the name of the chosen variant to the log file - append the "variantName"

to the log - e.g. “B”.

The percentage of AB Test can vary, but in total it should be 100%.

You should support up to 5 AB test variants (can be A/B/C/D/E).