## Leveling routes file format
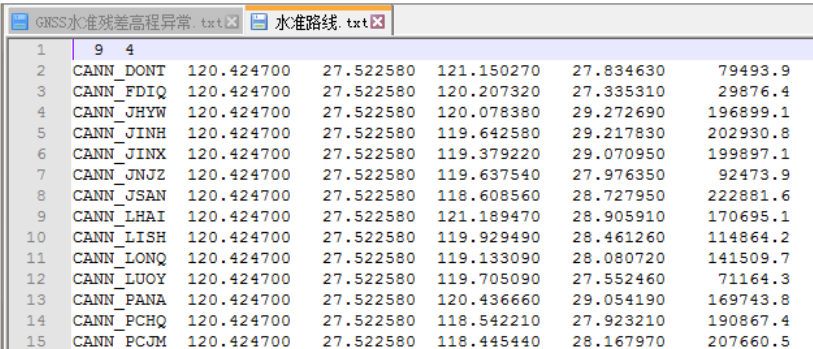
The header file occupies a line, with the format "the characters number of leveling routes names, characters number of the bench marks names".

The characters number of all the leveling routes names are equal, and the characters number of all the bench marks names are also equal.

The name of the leveling route "B***A" is composed of the starting bench mark names "A" and end bench mark name "B", and "***" is the user-defined characters.

One record represents one leveling route, and one leveling route has only one leveling height difference. The record format is "route name, longitude, latitude of starting mark, longitude, latitude of end mark (degree decimal), route length (m)"

For example as the figure. The first line " 9 4", "9" represents that the characters number of the leveling route names is equal to 9, and "4" represents that the characters number of the bench mark names is equal to 4. The first record is the leveling route CANN_DONT, the starting bench mark name is "CANN" and the end bench mark name is "DONT", and the user-defined character is "_".

| 1 | 9 4 | | | | | |
|---|---|---|---|---|---|---|
| 2 | CANN_DONT | 120.424700 | 27.522580 | 121.150270 | 27.834630 | 79493.9 |
| 3 | CANN_FDIQ | 120.424700 | 27.522580 | 120.207320 | 27.335310 | 29876.4 |
| 4 | CANN_JHYW | 120.424700 | 27.522580 | 120.078380 | 29.272690 | 196899.1 |
| 5 | CANN_JINH | 120.424700 | 27.522580 | 119.642580 | 29.217830 | 202930.8 |
| 6 | CANN_JINX | 120.424700 | 27.522580 | 119.379220 | 29.070950 | 199897.1 |
| 7 | CANN_JNJZ | 120.424700 | 27.522580 | 119.637540 | 27.976350 | 92473.9 |
| 8 | CANN_JSAN | 120.424700 | 27.522580 | 118.608560 | 28.727950 | 222881.6 |
| 9 | CANN_LHAI | 120.424700 | 27.522580 | 121.189470 | 28.905910 | 170695.1 |
| 10 | CANN_LISH | 120.424700 | 27.522580 | 119.929490 | 28.461260 | 114864.2 |
| 11 | CANN_LONQ | 120.424700 | 27.522580 | 119.133090 | 28.080720 | 141509.7 |
| 12 | CANN_LUOY | 120.424700 | 27.522580 | 119.705090 | 27.552460 | 71164.3 |
| 13 | CANN_PANA | 120.424700 | 27.522580 | 120.436660 | 29.054190 | 169743.8 |
| 14 | CANN_PCHQ | 120.424700 | 27.522580 | 118.542210 | 27.923210 | 190867.4 |
| 15 | CANN_PCJM | 120.424700 | 27.522580 | 118.445440 | 28.167970 | 207660.5 |