|  |  |  |
| --- | --- | --- |
| Scan String | Stack | Prefix String |
| H | - | H |
| \* | \* | H |
| ) | \*) | H |
| G | \*) | GH |
| / | \*)/ | GH |
| F | \*)/ | FGH |
| \* | \*)\* | /FGH |
| E | \*)\* | E/FGH |
| - | \*)- | \*E/FGH |
| D | \*)- | D\*E/FGH |
| ( | \* | - D\*E/FGH |
| / | / | \*- D\*E/FGH |
| ) | /) | \*- D\*E/FGH |
| ) | /)) | \*- D\*E/FGH |
| C | /)) | C\*- D\*E/FGH |
| + | /))+ | C\*- D\*E/FGH |
| B | /))+ | BC\*- D\*E/FGH |
| ( | /) | +BC\*- D\*E/FGH |
| \* | /)\* | +BC\*- D\*E/FGH |
| A | /)\* | A+BC\*- D\*E/FGH |
| ( | - | /\* A+BC\*- D\*E/FGH |

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(A\*(B+C))/(D-E\*F/G)\*H

Binary tree