

A-(B^C-D/E)^F-G*H*(I+J)

POSTFIX

PREFIX

| Karakter | Stack | Output | Karakter | Stack | Output |
|----------|-------|--------------------|----------|-------|---------------------|
| A | | A |) |) | |
| - | - | A |) |) | J |
| (| -(| A | + |)+ | J |
| B | -(| AB | I |)+ | JI |
| ^ | -(^ | AB | (| | JI+ |
| C | -(^ | ABC | * | + | JI+ |
| - | -(- | ABC^ | H | * | JI+H |
| D | -(- | ABC^D | * | ** | JI+H |
| / | -(-/ | ABC*D | G | ** | JI+HG |
| E | -(-/ | ABC*DE | - | - | JI+HG** |
|) | - | ABC*DE/- | F | - | JI+HG**F |
| ^ | -^ | ABC*DE/- | ^ | -^ | JI+HG**F |
| F | -^ | ABC*DE/-F |) | -^) | JI+HG**F |
| - | - | ABC*DE/-F^ | E | -^) | JI+HG**FE |
| G | - | ABC*DE/-F^G | / | -^)/ | JI+HG**FE |
| * | -* | ABC*DE/-F^G | D | -)/ | JI+HG**FED |
| H | -* | ABC*DE/-F^GH | | -^)- | JI+HG**FED/ |
| * | -* | ABC*DE/-F^GH* | C | -^)- | JI+HG**FED/C |
| (| -(| ABC*DE/-F^GH* | ^ | -^)^ | JI+HG**FED/C |
| (| -(| ABC*DE/-F^GH*I | B | -^)^ | JI+HG**FED/CB |
| + | -(+ | ABC*DE/-F^GH*IJ | (| -^ | JI+HG**FED/CB^- |
| J | '-(+ | ABC*DE/-F^GH*IJ | - | - | JI+HG**FED/CB^- |
|) | -* | ABC*DE/-F^GH*IJ+ | A | - | JI+HG**FED/CB^-A |
| | | ABC*DE/-F^GH*IJ+*- | | | JI+HG**FED/CB^-A- |
| | | | | | -A^-^ABC/DEF**GH+IJ |

| | | |
|----------|---|--|
| | | postfix |
| soal | $A^B - C * D / E^F + G + H - I / J + K^L - M$ | |
| karakter | isi stack | output |
| A | | A |
| ^ | ^ | A |
| B | ^ | AB |
| - | - | AB^A |
| C | - | $AB^A C$ |
| * | -* | $AB^A C$ |
| D | -* | $AB^A CD$ |
| / | -/ | $AB^A CD^*$ |
| E | -/ | $AB^A CD^* E$ |
| ^ | -/^ | $AB^A CD^* E$ |
| F | -/^ | $AB^A CD^* EF$ |
| + | + | $AB^A CD^* EF^A / -$ |
| G | + | $AB^A CD^* EF^A / -$ |
| + | + | $AB^A CD^* EF^A / - +$ |
| H | | $AB^A CD^* EF^A / - G + H$ |
| - | - | $AB^A CD^* EF^A / - G + H +$ |
| I | - | $AB^A CD^* EF^A / - G + H + I$ |
| / | -/ | $AB^A CD^* EF^A / - G + H + I$ |
| J | -/ | $AB^A CD^* EF^A / - G + H + IJ$ |
| + | + | $AB^A CD^* EF^A / - G + H + IJ / -$ |
| K | + | $AB^A CD^* EF^A / - G + H + IJ / - K$ |
| ^ | +^ | $AB^A CD^* EF^A / - G + H + IJ / - K$ |
| L | +^ | $AB^A CD^* EF^A / - G + H + IJ / - KL$ |
| - | - | $AB^A CD^* EF^A / - G + H + IJ / - KL^+ +$ |
| M | - | $AB^A CD^* EF^A / - G + H + IJ / - KL^+ + M$ |
| | | $AB^A CD^* EF^A / - G + H + IJ / - KL^+ + M -$ |

prefix

| karakter | isi stack | output |
|----------|-----------|---------------------------|
| M | | M |
| - | - | M |
| L | - | ML |
| ^ | -^ | ML |
| K | -^ | MLK |
| + | -+ | MLK^ |
| J | -+ | MLK^J |
| / | -+/- | MLK^J |
| I | -+/- | MLK^JI |
| - | -+- | MLK^JI/ |
| H | -+- | MLK^JI/H |
| + | -++ | MLK^JI/H |
| G | -++ | MLK^JI/HG |
| + | -+++ | MLK^JI/HG |
| F | -+++ | MLK^JI/HGF |
| ^ | -+++^ | MLK^JI/HGF |
| E | -+++^ | MLK^JI/HGFE |
| / | -+++/- | MLK^JI/HGFE^ |
| D | -+++/- | MLK^JI/HGFE^D |
| * | -+++/* | MLK^JI/HGFE^D |
| C | -+++/* | MLK^JI/HGFE^DC |
| - | -+++- | MLK^JI/HGFE^DC*/ |
| B | -+++- | MLK^JI/HGFE^DC*/B |
| ^ | -+++^- | MLK^JI/HGFE^DC*/B |
| A | -+++^- | MLK^JI/HGFE^DC*/BA |
| | | MLK^JI/HGFE^DC*/BA^-++-+- |
| | | -++-^-AB/*CD^EFGH/IJ^KLM |