|  |  |  |  |
| --- | --- | --- | --- |
| Test Case | Branch coverage | number of invocations | partition coverage |
|  |  |  | isLessThan , case : right >= left  add , case : left > 0 && right > 0  add , case : left < 0 || right < 0  xOR , case : ! (left == false || right == false )  add , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left > 0 && right > 0  isLessThan , case : right < left  xOR , case : left == false || right == false  add , case : left > 0 && right > 0  add , case : left < 0 || right < 0  subtract , case : left > right  add , case : left < 0 || right < 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 || right < 0  add , case : left > 0 && right > 0  multiply , case : left < 0 || right < 0  add , case : left > 0 && right > 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left < 0 || right < 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 || right < 0  add , case : left > 0 && right > 0  multiply , case : left > 0 && right > 0  add , case : left > 0 && right > 0  add , case : left > 0 && right > 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 || right < 0  add , case : left > 0 && right > 0  multiply , case : left > 0 && right > 0  add , case : left > 0 && right > 0  add , case : left > 0 && right > 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 || right < 0  add , case : left > 0 && right > 0  multiply , case : left > 0 && right > 0  add , case : left > 0 && right > 0  add , case : left > 0 && right > 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 || right < 0  add , case : left > 0 && right > 0  multiply , case : left > 0 && right > 0  add , case : left > 0 && right > 0  add , case : left > 0 && right > 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 || right < 0  add , case : left > 0 && right > 0  multiply , case : left > 0 && right > 0  add , case : left > 0 && right > 0  add , case : left > 0 && right > 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left > 0 && right > 0  add , case : left > 0 && right > 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left > 0 && right > 0  add , case : left > 0 && right > 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left > 0 && right > 0  add , case : left > 0 && right > 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  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0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  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isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  add , case : left < 0 && right < 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  multiply , case : left > 0 && right > 0  add , case : left < 0 || right < 0  add , case : left < 0 || right < 0  subtract , case : left < right  isLessThan , case : right < left  add , case : left > 0 && right > 0  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  isLessThan , case : right >= left  isLessThan , case : right >= left  xAND , case : left == true && right == true  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