```
                    lBorder = CommonUtils.max(lBorder, preAdd.getEndRecord().getKey());
                }
            }
            if (lastAdded < level0Files.size() - 1) {
                FileMeta postAdd = level0Files.get(lastAdded + 1);
                if (postAdd.getMajorId() == currentMajorId) {
                    rBorder = CommonUtils.min(rBorder, postAdd.getStartRecord().getKey());
                }
            }
        } else { // No file with this walId is usable.
            // Iterate from right to left
            for (int i = ind; i >= 0 && level0Files.get(i).getMajorId() == currentMajorId; i--) {
                FileMeta fileMeta = level0Files.get(i);
                // If there is a segment fully covers the row key range including the border, then the range is narrowed to 0.
                if (CommonUtils.contains(fileMeta.getStartRecord().getKey(),
                        fileMeta.getEndRecord().getKey(),
                        lBorder, rBorder)) {
                    return ret;
                }

                int startKeyCompRBorder = …;
                int startKeyCompLBorder = …;
                int endKeyCompRBorder = …;
                int endKeyCompLBorder = …;
                if (startKeyCompRBorder >= 0 || endKeyCompLBorder <= 0) {
                    // Such segment doesn't overlap with row key range, and can't influence the row key range.
                } else { // And these ones overlap with (lBorder, rBorder). If it fully covers the row key range including the border, then the range is narrowed to 0.
                    if (startKeyCompLBorder <= 0 && endKeyCompRBorder >= 0) {
                        return ret;
                    }
                    if (endKeyCompRBorder < 0) { // So startKeyCompLBorder is guaranteed to be <=0, because this segment is not usable.
                        lBorder = fileMeta.getEndRecord().getKey();
                    } else {
                        // startKeyCompLBorder > 0
                        rBorder = fileMeta.getStartRecord().getKey();
                    }
                }
            }
        }
        if (CommonUtils.compareByteArray(lBorder, rBorder) >= 0) {
            break;
        }
    }
    return ret;
}
```