

```

sum = 0.0; na = 1; nb = 1;
c = elementsA[na]->index;      # column in row of A
r = elementsB[i][nb]->index;  # row in column of B
while (na <= lengthA and nb <= lengthB) {
  if (r == c) {
    sum += elementsA[na]->value *
           elementsB[i][nb]->value;
    na++; nb++;
    c = elementsA[na]->index;
    r = elementsB[i][nb]->index;
  } else if (r < c) {
    nb++; r = elementsB[i][nb]->index;
  } else { # r > c
    na++; c = elementsA[na]->index;
  }
}
if (sum != 0.0) { # extend row of C
  elementsC[lengthC] = pair(i, sum);
  lengthC++;
}

```

Inner product code for Worker *i* in sparse matrix multiplication.

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