```
Positional-Joins(P(X), P(Y), l, u)
1  i ← j ← k ← 1;
2  while (i ≤ |P(X)| and j ≤ |P(Y)|) do
3      d ← P(Y)[j] − P(X)[i] − 1;
4      if (d < l) then
5          j ← j + 1;
6      else if (d > u) then
7          i ← i + 1;
8      else
9          P(X[l, u]Y)[k] ← i;
10         i ← i + 1;
11         k ← k + 1;
12 return P(X[l, u]Y);
```