# Worksheet solution: Classifying different versions of parallel search algorithms

Enter "YES" or "NO", as appropriate, in each box below

| Example: String Search variation | Data Race Free? | Functionally Deterministic? | Structurally Deterministic? |
|---|---|---|---|
| V1: Count of all occurrences | YES | YES | YES |
| V2: Existence of an occurrence | NO | YES | YES |
| V3: Index of any occurrence | NO | NO | YES |
| V4: Optimized existence of an occurrence: do not create more async tasks after occurrence is found | NO | YES | NO |
| V5: Optimized index of any occurrence: do not create more async tasks after occurrence is found | NO | NO | NO |