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Algorithm 1 Construct CTI_SyscallSynonymBase
                          /* a list of 354 linux syscall names (1-D array) */
Input SyscallList[]
Output SynonymList[] /* a table presenting SynonymBase (n-D array) */
Initialize SynonymList \leftarrow []
Initialize PairList \leftarrow []
for thisSyscall in SyscallList do
/* Search for manual webpage for each system call */
/* Get the sections of manual webpage */
    manpage \leftarrow crawl_web_content(url, this_syscall)
                       \leftarrow extract(manpage)
    nameSector
    descriptionSector \leftarrow extract(manpage)
end for
/* Extract and store the verb-object phrase pair from manual */
for sector in [nameSector, descriptionSector] do
    verbList ← find_verb_phrase_in_sentence(sector) // by DP
    objectList \leftarrow find\_object\_phrase\_in\_sentence(sector) // by expert
    pairs \leftarrow construct\_pairs(verbList, objectList, sector)
    extend list pairs to PairList
end for
/* Construct CTI_SyscallSynonymBase */
Initialize rowData ← []
for (syscall, verb, object) in PairList do
    rowData.syscall \leftarrow syscall
    rowData.enVerb \leftarrow verb
    rowData.object \leftarrow object
    rowData.sentence \leftarrow descriptionSent
    // We assign entity and action type for every syscall
    rowData.entityType \leftarrow classify_object_entity(syscall, object)
    rowData.actionType \leftarrow classify\_syscall(syscall)
    // Obtain word vector for the 'verb' in sentence
    rowData.wordvector \leftarrow bert\_embedding(descriptionSent, verb)
    append rowData to SynonymList
end for
return SynonymList
```