```
## target = [residue], template = [residue]
## structure = [(residueName,residue)]
BuildStructure(target,template,structure):
      i,j = 0
      target_structure = []
      while i < length(target) and j < length(structure):</pre>
             # template[i] in alignment is blank
             if template[i] == '-':
                   # create a residue with blank atoms
                    res = BlankResidue()
                    target_structure.append(res)
                    # structure file missing residue
                    if structure[j][0] == '-':
                          j++
                    continue
             # target[i] in alignment is blank
             if target[i] == '-':
                    i++, j++
                    continue
             # copy the atoms
             res = copyAtoms(structure[j][1])
             # change the residue name for atoms
             changeResidueName(res,target[i])
             target_structure.append(res)
             i++, j++
      final_structure = []
      for res in target_structure:
             for atom in res:
                    if not atom.blank:
                           final_structure.append(atom)
```