

Data: *kitToBuild*

Result: reports success or failure

```
1 retrieve instance PDDLInstance to construct kit kitToBuild;  
2 for each action A in PDDLInstance do  
3   for each precondition P of action A do  
4     if PredicateEvaluation(P) = false then  
5       | report failure;  
6     end  
7   end  
8   create set S of Canonical Robot Control Language Commands;  
9   send set S to Robot Controller for execution;  
10  for each effect E of action A do  
11    if PredicateEvaluation(E) == false then  
12      | report failure;  
13    end  
14  end  
15  report action success;  
16 end  
17 report plan success;
```

Fig. 4. BUILDKIT – Sequences the actions necessary to build a kit.