begindocument

Problem Statement
Input: Nhu trong file text.
Variables: Nhu trong file text.
Invariants: Nhu trong file text.
Constraints: Nhu trong file text.
Output: Nhu trong file text.

Input: As problem statement
Output: As problem statement
foreach $k \in CL$ **do**
  $S(k) \leftarrow \emptyset$;
  findSolutionOneClass($\emptyset$);
end

Algorithm 1: findSolution

Input: Class k.
Output: *S(k)*
findSolutionOneClass($p1, \ldots, pi$);
if $isASolution(p1, \ldots, pi)$ **then**
  $S(k) \leftarrow S(k) \cup (p1, \ldots, pi)$;
  return;
end
foreach $p \in P$ **do**
  findSolutionOneClass($p1, \ldots, pi, p$);
end

Algorithm 2: findSolutionOneClass($p1, \ldots, pi$)

Input: $(p1, \ldots, pi)$.
Class k.
Output: Return *true* if $(p1, \ldots, pi)$ is a solution of class k, else return *false*

```
1  if size(p1, ..., pi) ≠ nbcc(k) then
2  |  return false;
3  else
4  |  foreach p ∈ (p1, ..., pi) do
5  |  |  if vi(p) ≠ 0 then
6  |  |  |  return false;
7  |  |  end
8  |  end
9  end
10 return true;
```

Algorithm 3: isASoluton$(p1, \ldots, pi)$