```
init Dat aFlow: Inst \rightarrow (Var \rightarrow 2<sup>Inst</sup>)
   output:
 1 s_0 \leftarrow first(f)
2 input [s_0] ← init Dat aFlow(s_0)
3 worklist ← \{s_0\}
4 while worklist = Ødo
       i ← next (worklist)
       out put [i] ← Fl ow(Anal yze, i)
       foreach j ∈ succs(i) do
           if out put [i] input [i] then
                input[i] ← input[i] output[i]
                worklist ← worklist ∪ {i}
           end
       end
13 end
```

Algorithm 1: Analyze

input: func: Proc,