```
start
                                                          entry:
                                                          %y = add nsw i32 0, 0
                                                          %i = add nsw i32 0, 0
                                                          br label %while.cond
                                                                      \{ \text{%y--> } [0,1), \text{ %i } --> [0,1), \}
                                      while.cond:
                                       %i.0 = phi i32 [ %i, %entry ], [ %add1, %while.body ]
                                       %x.addr.0 = phi i32 [ %y, %entry ], [ %add, %while.body ]
                                       %cmp = icmp slt i32 %i.0, 100
                                       br i1 %cmp, label %while.body, label %while.end
                                                                                     F
{%i.0 --> [0,100), %x.addr.0 --> full-set,
                                                     {%i.0 --> [0,101), %x.addr.0 --> full-set,
                                                                                                          {\%i.0 --> [100,101), \%x.addr.0 --> full-set,
                                                      %y --> [0,1), %i --> [0,1),
 %y \longrightarrow [0,1), %i \longrightarrow [0,1),
                                                                                                           %y \longrightarrow [0,1), %i \longrightarrow [0,1),
  %add --> full-set, %add1 --> [1,101), }
                                                      %add --> full-set, %add1 --> [1,101), }
                                                                                                           %add --> full-set, %add1 --> [1,101), }
                 while.body:
                  %add = add nsw i32 %x.addr.0, %i.0
                                                                                            while.end:
                  %add1 = add nsw i32 %i.0, 1
                                                                                             ret i32 %x.addr.0
                   br label %while.cond
```