



Part 1: pseudo code for f.

```

int f(x) {
    if(x==3){return 3;}
    else if(x!=3){return -3;}
    else if(x==4){return 4;}
    else if(x!=4&&x!=3){return 2;}
}
  
```

Part 2: pseudo code for g.

```

int g(x,y) {
    if(x==1){return 1;}
    else if((x==0 | x==2 | x==4)&&y==3){return 1;}
    else if((x==0 | x==2)&&y==2){return 2;}
    else if((x==0 | x==2)&&y==4) | (x==4&&y==3)){return 4;}
}
  
```

Part 3: Specification of initial value.

Initial value = 0

Part 4: Interpretation of final value.

1,2: Nice

4: Not Nice