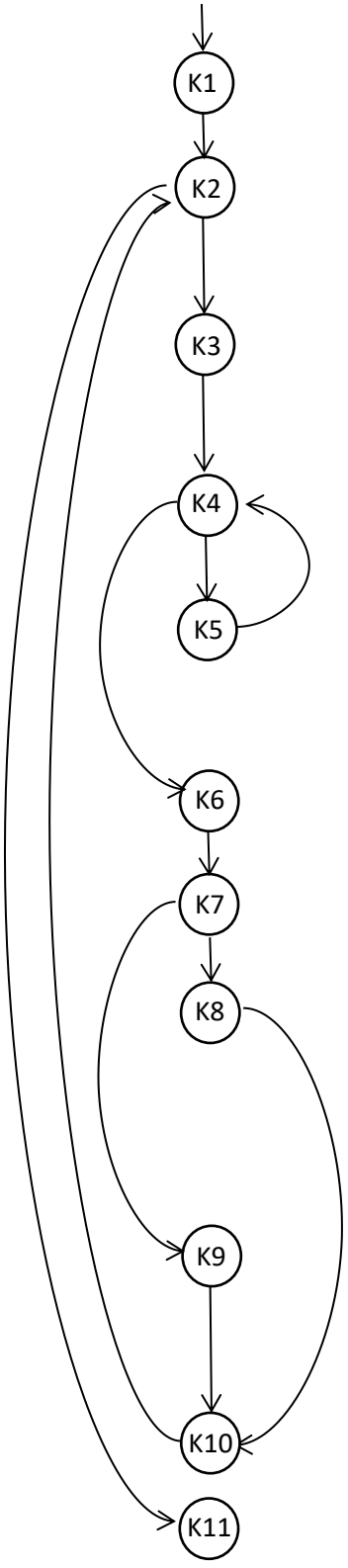


```
protected static ArrayList<Node> getSatellitesFromInputFormat(ArrayList<InputTransponder>
inputTransponders) {

        HashMap<String, Satellite> satellites = new HashMap<>();

        for(InputTransponder inputTrasponder : inputTransponders){

            String satName = inputTrasponder.sat;
            Transponder transponder = new Transponder(inputTrasponder.pol,
                                                inputTrasponder.freq, inputTrasponder.sym);
            ArrayList<Node> channels = new ArrayList<>();

            for(InputChannel channel :  inputTrasponder.channels){

                channels.add(new Channel(channel.name, parseInt(channel.sid)));

            }

            transponder.setChildren(channels);

            if(satellites.containsKey(satName)){

                satellites.get(satName).addChild(transponder);

            }
            else{

                Satellite sat = new Satellite(satName, inputTrasponder.orbital);
                sat.addChild(transponder);
                satellites.put(satName, sat);

            }
        }
        return new ArrayList<>(satellites.values());
    }
```

T1: K1, K11

T2: K1, K2, K3, K4, K5, K4, K6, K7, K9, K10, K2, K11

T3: K1, K2, K3, K4, K5, K4, K6, K7, K9, K10, K2, K3, K4, K5, K4, K6, K7, K8, K10, K2, K11

T4: K1, K2 -> Exception

Anweisungsüberdeckung: { T3 } Zweigüberdeckung: { T3 } Pfadüberdeckung: { T1, T2, T3, T4 } *

* keine vollständige möglich, wegen For-Schleifen, aber so alle Pfade überdeckt, die For-Schleife als 1x Pflicht betrachtet