digraph astgraph {

node [shape=circle, fontsize=12, fontname="Courier", height=.1];

ranksep=.3;

edge [arrowsize=.5]

node1 [label="Program"]

node2 [label="Block"]

node3 [label="VarDecl"]

node4 [label="a"]

node3 -> node4

node5 [label="INTEGER"]

node3 -> node5

node6 [label="ProcDecl:P1"]

node7 [label="Block"]

node8 [label="VarDecl"]

node9 [label="a"]

node8 -> node9

node10 [label="REAL"]

node8 -> node10

node11 [label="VarDecl"]

node12 [label="k"]

node11 -> node12

node13 [label="INTEGER"]

node11 -> node13

node14 [label="ProcDecl:P2"]

node15 [label="Block"]

node16 [label="VarDecl"]

node17 [label="a"]

node16 -> node17

node18 [label="INTEGER"]

node16 -> node18

node19 [label="VarDecl"]

node20 [label="z"]

node19 -> node20

node21 [label="INTEGER"]

node19 -> node21

node22 [label="Compound"]

node23 [label=":="]

node24 [label="z"]

node25 [label="777"]

node23 -> node24

node23 -> node25

node22 -> node23

node26 [label="NoOp"]

node22 -> node26

node15 -> node16

node15 -> node19

node15 -> node22

node14 -> node15

node27 [label="Compound"]

node28 [label="NoOp"]

node27 -> node28

node7 -> node8

node7 -> node11

node7 -> node14

node7 -> node27

node6 -> node7

node29 [label="Compound"]

node30 [label=":="]

node31 [label="a"]

node32 [label="10"]

node30 -> node31

node30 -> node32

node29 -> node30

node33 [label="NoOp"]

node29 -> node33

node2 -> node3

node2 -> node6

node2 -> node29

node1 -> node2

}