CMPUT307 Lab 4, Exercise 1

Ans a. number of bones = 29

Ans b. (as seen from the "dance.asf" file)

Root -> left-hip joint -> right-hip joint -> lower-back

left-hip joint -> left-femur

left-femur -> left-tibia

left-tibia -> left-foot

left-foot -> left-toes

right-hip joint -> right-femur

right-femur -> right-tibia

right-tibia -> right-foot

right-foot -> right-toes

lower-back -> upper-back

upper-back -> thorax

thorax -> lower-neck -> left-clavicle -> right-clavicle

lower-neck -> upper-neck

upper-neck -> head

left-clavicle -> left-radius

left-radius -> left-wrist

left-wrist -> left-hand -> left-thumb

left-hand -> left-fingers

right-clavicle -> right-radius

right-radius -> right-wrist

right-wrist -> right-hand -> right-thumb

right-hand -> right-fingers

Ans c. dance.amc has 1086 motion frames

Ans d. run.amc has 141 motion frames