

CS1315 Spring 2004

Pre-quiz 2

Your name: _____

Your GNum (PRISM username): _____

We've seen a function that reverses a sound:

```
def playBackward(filename):
    source = makeSound(filename)
    dest = makeSound(filename)
    srcSample = getLength(source)
    for destSample in range(1, getLength(dest)+1):
        srcVolume = getSampleValueAt(source, srcSample)
        setSampleValueAt(dest, destSample, srcVolume)
        srcSample = srcSample - 1
    return dest
```

And a function that can process samples by index number:

```
def increaseVolumeByRange(sound):
    for sampleIndex in range(1, getLength(sound)+1):
        value = getSampleValueAt(sound, sampleIndex)
        setSampleValueAt(sound, sampleIndex, value * 2)
```

Write a function (on back if needed) called *middlehalfback* that takes a filename as input and then turns backwards just the *middle half* of the sound and returns the result. For example, if the sound said "MarkBark" the returned sound should say "MaaBkrrk" (reversing the middle "rkBa").

You are allowed to collaborate on this pre-quiz, but please identify your collaborators by writing their names at the bottom of this page.