|  |  |  |
| --- | --- | --- |
| **Sndinfo (10)** | | |
| Filename | -h | |
| Filetype(2) |  | |
| Sample rate |  | |
| Bit depth |  | |
| numChannels |  | |
| numSamples |  | |
| soundlength |  | |
| stdin(fnf) |  | |
| Methods | | |
| Read(file) : void | | |
|  | | |
|  | | |
|  | | |
|  | | |
|  | | |
| **Sndmix (15)**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Sndcat (15)** | |  |  |  | | Filename x,i  stdin(fnf)  newName(file)  maxChannels or errors | -h  -o file  -w | Helper screen  Outputs filename  Outputs in .wav format instead of  .cs229 ( extra credit) |  |  | |  |  |  |  | | Methods | | | Read(file) : void  Output(file): void | | |  | |  |  |  | | | |
| Filename x,i | | -h |
| newName(file) | | -o file |
| numBefore[i] | | |
| Methods | | |
| Using a Helper | | |
| Help() : void | | |
| Output(file) : void | | |

Multiply (mult i, file i): void

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sndgen (20)**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Sndcat (15)** | |  |  |  | | Filename x,i  stdin(fnf)  newName(file)  maxChannels or errors | -h  -o file  -w | Helper screen  Outputs filename  Outputs in .wav format instead of  .cs229 ( extra credit) |  |  | |  |  |  |  | | Methods | |  |  |  | | Read(file) : void  Cat(existing, new) : existing  Help(): void  Convert (maxChannels): ?  Output(file): void | |  |  |  | |  | |  |  |  | | |
| Frequency  Waveform  Volume  Bitdepth  sampleRate  duration  releaseTime  attackTime  DecayTime  PeakVolumePercent  sustainVolumePercent | -h -- sine  -o file --triangle  -- bits n -- sawtooth  --sr n -- pulse  - fr -- pfp  - tr  -vp  -ar  -dr  -sp  -rr |
| Methods | |
| setBitDepth(n) : void | |
| setSampleRate(n) : void | |
| setDuration(r): void | |
| setFrequency(r): void | |
| setAttackTime(r) : void | |
| Help() : void | |
| setDecayTime(r) : void | |
| Output(file): void | |
| setPeakVolumePercent(p): void | |
| setSustainVoulmePercent(p) : void | |
| setReleaseTime(r) : void | |
| genSine(...): void  genST(…): void  genPulse(…): void | |
| genTri(…): void | |
| genTri(…): void | |

Extra Credit

|  |  |
| --- | --- |
| **Sndcvt (15)** | |
| Format(2) | -h |
| Stdin(fnf) | -o file |
| If .wav then .cs229 else .wav |  |
| Methods | |
| convert() : void | |
| fileHandling() : void | |
| Help() : output | |
| Output(file): void | |

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| **SndPlay (30)**   |  |  | | --- | --- | | **Sndfx (15)** | | | soundFx[] | -h | |  | -O file | | Methods | | | Echo() : void | | | Fadein() : void | | | fadeout() : void | | | Pitchup(): void | | | pitchuDown(): void | | | Help() : void | | | Output() : void | | | |
| Must have .abc 229 format | -h --sr n  -o file -- mute n |
| New Name (file) | -w |
| Frequency of note | --bitsn |
| Methods | |
| Read(file) : void | |
| Produce() : void | |
| Convert() : void | |
| Help(): void | |
| Output(file): void | |
| setBitDepth() : void | |
| setSampleRate() : void | |
| muteInstrument(): void | |