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/* Souley Dan Magagi Ibrahim
Kagame cohort */
#include <cs50.h>
#include <string.h>
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
#include "helpers.h"

int duration(string fraction)
{
    int x = atoi(&fraction[0]);
    int y = atoi(&fraction[2]);
    int dur = (8./y)*x
    return dur;
}

int frequency(string note)
{
    int oct;
    int n = 0;
    if (strlen(note)==3)
    {
        oct = atoi(&note[2]);
        char accident = note[1];
        if (accident=='#')
        {
            n += 1;
        }
        else if (accident == 'b')
        {
            n -= 1;
        }
    }
    else if
    {
        oct = atoi(&note[1]);
    }
    char letter = note[0];

    if (letter=='A')
    {
        n += 0;
    }
    else if (letter=='B')
    {
        n += 2;
    }
    else if (letter=='C')
    {
        n -= 9;
    }
    else if (letter=='D')
    {
        n -= 7;
    }
}

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    }
    else if (letter=='E')
    {
        n -= 5;
    }
    else if (letter=='F')
    {
        n -= 4;
    }
    else if (letter=='G')
    {
        n -= 2;
    }
    n += (oct-4) * 12;

    float power = n/12.;
    float f = round(pow(2, power)*440);
    return f;
}
bool is_rest(string s)
{
    return 1;
}
else if
{
    return 0;
}
}

```