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#include <stdio.h>

double get_powerloss(int distance, double r, double power, int v)
{
    double R = distance * r;
    double i = power / v;
    return i * i * R;
}

void main()
{
    double r = 0.05;
    int distance;
    double R, i;
    double power = 500;
    int v1 = 100, v2 = 200;

    // Calculating powerloss at v1 = 100
    printf("\nPower loss at 100v");
    for (distance = 20; distance <= 100; distance += 10)
        printf(" Power loss at %d distance: %f\n", distance, get_powerloss(distance, r, power, v1));
    printf("\n");

    // Calculating powerloss at v2 = 200
    printf("\nPower loss at 200v");
    for (distance = 20; distance <=100; distance += 10)
        printf(" Power loss at %d distance: %f\n", distance, get_powerloss(distance, r, power, v2));
}

```