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#include <stdio.h>
#include <stdlib.h>
#include <math.h>

// Define constants for the calculations.
#define Increase      0.03

int main(void)
{
    double Consumption, Reserves;
    long Year;

    system("clear");

    printf("Enter the initial consumption (ZJ/yr):  ");
    scanf("%lf", &Consumption);
    printf("Enter the total reserves (ZJ):  ");
    scanf("%lf", &Reserves);
    printf("Enter the starting year:  ");
    scanf("%ld", &Year);
    printf("\n\n");

    do
    {
        Reserves -= Consumption;
        Consumption *= (1 + Increase);
        Year++;
    } while (Reserves > 0);

    printf("\n\nReserves will run out by %ld\n\n\n", Year);

    return 0;
}

```