

## The Power Sum

```
#include <stdio.h>

#include <math.h>

// Function to recursively find the power sums
int powerSumHelper(int X, int N, int num) {
    //complete the code
}

// Main function to find the number of ways to express X as sum of N-th powers of
// unique natural numbers
int powerSum(int X, int N) {
    return powerSumHelper(X, N, 1);
}

int main() {
    int X, N;
    printf("Enter X: "); // Input the values of X and N
    scanf("%d", &X);
    printf("Enter N: ");
    scanf("%d", &N);
    int result = powerSum(X, N); // Calculate and print the number of combinations
    printf("%d\n", result);
    return 0;
}
```