1. #include <stdio.h>

#include <math.h>

int isDisarium(int num) {

int temp = num, sum = 0, count = 0;

int t = temp;

while (t > 0) {

count++;

t /= 10;

}

t = temp;

while (t > 0) {

int digit = t / (int)pow(10, count - 1);

sum += pow(digit, count);

t %= (int)pow(10, count - 1);

count--;

}

return (sum == num);

}

int main() {

int n, start, end;

printf("Enter how many Disarium numbers you want: ");

scanf("%d", &n);

printf("First %d Disarium numbers:\n", n);

int count = 0, num = 0;

while (count < n) {

if (isDisarium(num)) {

printf("%d ", num);

count++;

}

num++;

}

printf("\n\n");

printf("Enter the range (start end): ");

scanf("%d %d", &start, &end);

printf("Disarium numbers between %d and %d are:\n", start, end);

for (int i = start; i <= end; i++) {

if (isDisarium(i)) {

printf("%d ", i);

}

}

printf("\n");

return 0;

}

**OUT PUT Enter how many Disarium numbers you want: 5**

**First 5 Disarium numbers:**

**0 1 2 3 4**

**Enter the range (start end): 10 200**

**Disarium numbers between 10 and 200 are:**

**89 135**