

In C programming language, the nth term of an arithmetic progression can be calculated using the following formula:

$$a_n = a_1 + (n-1)d$$

where a_n is the nth term of the progression, a_1 is the first term, n is the position of the term to be found, and d is the common difference between consecutive terms.

Here is an example program to find the nth term of an arithmetic progression using the above formula:

```
#include <stdio.h>

int main() {
    int a1, d, n, an;
    printf("Enter the first term: ");
    scanf("%d", &a1);
    printf("Enter the common difference: ");
    scanf("%d", &d);
    printf("Enter the position of the term to be found: ");
    scanf("%d", &n);
    // calculate the nth term using the formula
    an = a1 + (n - 1) * d;

    printf("The %dth term of the arithmetic progression is %d\n", n,
an);
    return 0;
}
```

In this program, we first declare four integer variables a_1 , d , n , and a_n . We ask the user to input the values of a_1 , d , and n using the `scanf()` function.

Then, we calculate the value of a_n using the formula $a_n = a_1 + (n-1)d$. Finally, we print the value of a_n using the `printf()` function.

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