

```
/**21
 * C program to count frequency of digits in a given number
 */
```

```
#include <stdio.h>
```

```
#define BASE 10 /* Constant */
```

```
int main()
```

```
{
```

```
    long long num, n;
```

```
    int i, lastDigit;
```

```
    int freq[BASE];
```

```
    /* Input number from user */
```

```
    printf("Enter any number: ");
```

```
    scanf("%lld", &num);
```

```
    /* Initialize frequency array with 0 */
```

```
    for(i=0; i<BASE; i++)
```

```
    {
```

```
        freq[i] = 0;
```

```
    }
```

```
    /* Copy the value of 'num' to 'n' */
```

```
    n = num;
```

```
    /* Run till 'n' is not equal to zero */
```

```
    while(n != 0)
```

```
    {
```

```
        /* Get last digit */
```

```
        lastDigit = n % 10;
```

```
        /* Remove last digit */
```

```
        n /= 10;
```

```
        /* Increment frequency array */
```

```
        freq[lastDigit]++;
```

```
    }
```

```
    /* Print frequency of each digit */
```

```
    printf("Frequency of each digit in %lld is: \n", num);
```

```
    for(i=0; i<BASE; i++)
```

```
    {
```

```
        printf("Frequency of %d = %d\n", i, freq[i]);
```

```
    }
```

```
    return 0;
```

```
}
```