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Binary to Decimal in C - Sanfoundry



main.c

```
1 #include <stdio.h>
2
3 void main()
4 {
5     int num, binary_val, decimal_val = 0, base = 1, rem;
6
7     printf("Enter a binary number(1s and 0s) \n");
8     scanf("%d", &num); /* maximum five digits */
9     binary_val = num;
10    while (num > 0)
11    {
12        rem = num % 10;
13        decimal_val = decimal_val + rem * base;
14        num = num / 10;
15        base = base * 2;
16    }
17    printf("The Binary number is = %d \n", binary_val);
18    printf("Its decimal equivalent is = %d \n", decimal_val);
19 }
```

Input

Enter a binary number(1s and 0s)  
1010  
The Binary number is = 1010  
Its decimal equivalent is = 10

...Program finished with exit code 0  
Press ENTER to exit console.