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//WAP to convert decimal to binary
/*Algorithm:
 1.Read a decimal number to convert into binary number
 2.Define a d2b() with no return type and with decimal number as argument.
 3.perform decimal to binary using a user defined function i.e, d2b(decimal 2 binary).
 3.print the binary number value of given decimal number.
 */

#include<stdio.h>                       //include standard input and output header file using preprocessor directive
void d2b(int );                                 //declare a function with no return type and decimal as argument
int main()                                      //start main()
{
        setbuf(stdout,NULL);
        int v_decimal;                                                  //declare an integer variable to input the decimal
        puts("Enter the number to convert decimal to binary:");         //display a statement to enter decimal
        scanf("%d",&v_decimal);                                         //input the decimal using scanf()
        d2b(v_decimal);                                                                 //call d2b()
}                                                                                       //end main()
void d2b(int v_dec)                                                             //define a d2b() function
{
        int temp;
        int rem[32],coef,i=0,cnt=0;
                        //declare rem[32] array to store the binary converted decimal, i for referencing, coef and cnt.
        temp=v_dec;
        while(v_dec)                    //define while() loop in order to get the binary value for given decimal
        {
                rem[i]=v_dec%2;
                coef=v_dec/2;
                v_dec=coef;
                i++;
                cnt++;
        }
        if(cnt<8)
        {
           cnt=8;
        }
        printf("Binary value for %d is ",temp);
        for(i=cnt-1;i>=0;i--)                                   //define a for loop to print the binary value of it.
        {
                if(rem[i]==0||rem[i]==1)
                {
                printf("%d ",rem[i]);
                }
                else
                {
                   rem[i]=0;
                   printf("%d ",rem[i]);
                }
        }
}
```