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#include<stdio.h>

int main(void){
    char A[1000];
    int edo=1,i=0;
    printf("\nIngrese NÃºmero\n");
    scanf("%s",&A[i]);
    while(edo!=12){
        switch (edo){
            case 1:
                if(A[i]=='+' | A[i]=='-'){
                    edo=2;
                    i++;
                }
                else{ if(A[i]=='0'|A[i]=='1'|A[i]=='2'|
A[i]=='3'|A[i]=='4'|A[i]=='5'|A[i]=='6'|
A[i]=='7'|A[i]=='8'|A[i]=='9'){
                    edo=3;
                    i++;
                }
                else edo=10;
            }
            break;
            case 2:
                if(A[i]=='0'|A[i]=='1'|A[i]=='2'|
A[i]=='3'|A[i]=='4'|A[i]=='5'|A[i]=='6'|
A[i]=='7'|A[i]=='8'|A[i]=='9'){
                    edo=3;
                    i++;
                }
                else edo=10;
            break;
            case 3:
                if(A[i]=='0'|A[i]=='1'|A[i]=='2'|
A[i]=='3'|A[i]=='4'|A[i]=='5'|A[i]=='6'|
A[i]=='7'|A[i]=='8'|A[i]=='9'){
                    edo=3;
                    i++;
                }
                else{
                    if(A[i]=='.'){
                        edo=4;
                        i++;
                    }
                    else{
                        if(A[i]=='e'){
                            edo=5;
                            i++;
                        }
                    }
                }
            }
        }
    }
}

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else edo=9;
    }
}
break;
case 4:
    if(A[i]=='0'|A[i]=='1'|A[i]=='2'|
A[i]=='3'|A[i]=='4'|A[i]=='5'|A[i]=='6'|
    A[i]=='7'|A[i]=='8'|A[i]=='9'){
        edo=4;
        i++;
    }
    else{
        if(A[i]=='e'){
            edo=5;
            i++;
        }
        else{
            if(A[i]=='.') edo=10;
            else edo=8;
        }
    }
    break;
case 5:
    if(A[i]=='+'|A[i]=='-'){
        edo=6;
        i++;
    }
    else{
        if(A[i]=='0'|A[i]=='1'|A[i]=='2'|
A[i]=='3'|A[i]=='4'|A[i]=='5'|A[i]=='6'|
        A[i]=='7'|A[i]=='8'|A[i]=='9'){
            edo=7;
            i++;
        }
        else edo=10;
    }
    break;
case 6:
    if(A[i]=='0'|A[i]=='1'|A[i]=='2'|
A[i]=='3'|A[i]=='4'|A[i]=='5'|A[i]=='6'|
A[i]=='7'|A[i]=='8'|A[i]=='9'){
        edo=7;
        i++;
    }
    else edo=10;
    break;
case 7:
    if(A[i]=='.'|A[i]=='e') edo=10;
    else{
        if(A[i]=='0'|A[i]=='1'|A[i]=='2'|

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A[i]=='3'|A[i]=='4'|A[i]=='5'|A[i]=='6'|
    A[i]=='7'|A[i]=='8'|A[i]=='9'){
    edo=7;
    i++;
    }
    else edo=11;
    }
    break;
case 8:
    printf("Es un nÃºmero fraccional\n\n");
    edo=12;
    break;
case 9:
    printf("Es un nÃºmero entero\n\n");
    edo=12;
    break;
case 10:
    printf("No es un nÃºmero\n\n");
    edo=12;
    break;
case 11:
    printf("Es un nÃºmero en notaciÃ³n cientÃ-
fica\n\n");
    edo=12;
    break;
    }
}
}

```