

```

int Match_Brackets()
{
    Stk_Node* S;
    S = Init_Link_Stack();

    char ch, x;

    printf("Enter a string: ");

    while (ch != '\n')
    {
        scanf("%c", &ch);
        if ((ch == '(') || (ch == '['))
            push(S, ch);
        else if (ch == ']')
        {
            pop(S, &x);
            if (x != '[')
            {
                printf("\']\' Error !\n");
                return FALSE;
            }
        }
        else if (ch == ')')
        {
            pop(S, &x);
            if (x != '(')
            {
                printf("\')\' Error !\n");
                return FALSE;
            }
        }
    }

    if (S->next != NULL)
    {
        printf("Error for \'(\', \')\', \'[\' or \']\'!\n");
        return FALSE;
    }
    else
        return TRUE;
}

```

1. $ch = [(c-d)*e]$
2. S
 top
3. S

[

 top
4. S

(

 top

[
5. S

[

 top
6. S
 top
7. TRUE