

```

    printf("B->bB");
    stackpush('B');
}
} else {
if(stack[top] == input[i]){
    printf("Pop %c",input[i]);
    printf("\t Matched  %c",input[i]);
    pop();
    i++;
}
else
    break;
}
}
}

```

```

if(stack[top] == '$' && input[i] == '$'){
    printf("\n$\t$");
    printf("\nThe string is VALID and it is ACCEPTED.\n");
} else
    printf("\nThe string is INVALID and thus is REJECTED.\n");
}

```

OUTPUT:

```

rehan@tribunal:~/Documents/SSC$ ./a.out
Enter the input string terminated with $ to parse: abba$

Stack   Input   Action
A$      abba$   A->aBa
aBa$    abba$   Pop a    Matched  a
Ba$     bba$    B->bB
bBa$    bba$    Pop b    Matched  b
Ba$     ba$     B->bB
bBa$    ba$     Pop b    Matched  b
Ba$     a$      B->@
a$      a$      Pop a    Matched  a
$       $
The string is VALID and it is ACCEPTED.
rehan@tribunal:~/Documents/SSC$

```