

```
int i;
```

```
printf("Enter the input string terminated with $ to parse: ");  
scanf("%s",&input);
```

```
for(i=0;input[i]!='\0';i++){  
    if((input[i] != 'a') && (input[i] != 'b') && (input[i] != '$')){  
        printf("Invalid String.\n");  
        exit(0);  
    }  
}
```

```
if(input[i-1] != '$'){  
    printf("\n Input String is enetred without the end marker $. \n");  
    exit(0);  
}
```

```
push('$');  
push('A');
```

```
i=0;
```

```
printf("\n\n");  
printf("Stack\tInput\tAction\n");
```

```
while(i != strlen(input) && stack[top] != '$'){  
    printf("\n");  
    for(l=top; l>=0; l--)  
        printf("%c",stack[l]);  
    printf("\t");
```

```
    for(l=i; l<strlen(input); l++)  
        printf("%c",input[l]);  
    printf("\t");
```

```
    if(stack[top] == 'A'){  
        printf("A->aBa");  
        stackpush('A');  
    } else if(stack[top] == 'B'){  
        if(input[i] != 'b'){  
            printf("B->@");  
            printf("\t Matched @");  
            pop();  
        } else {
```