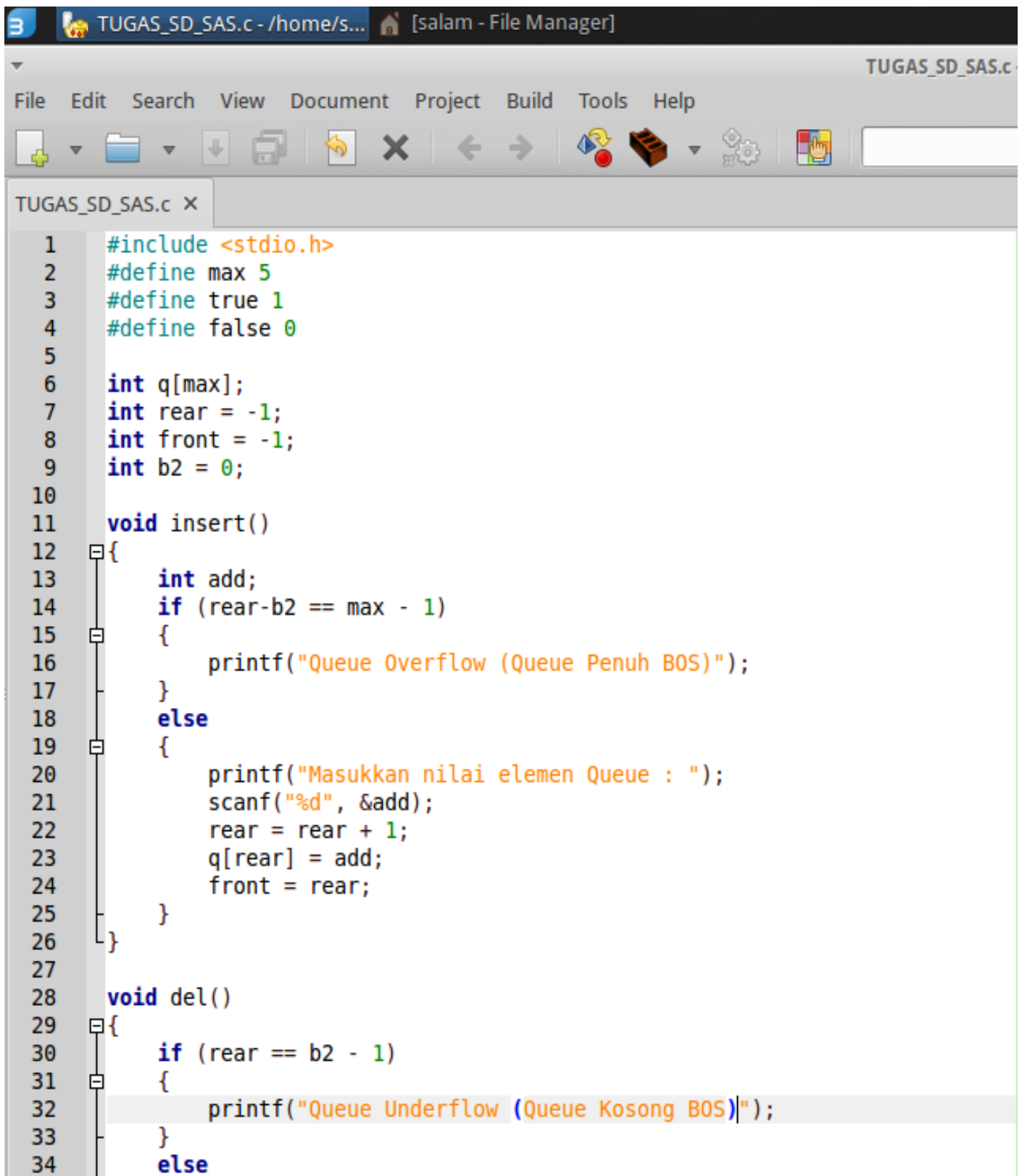


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```
1  #include <stdio.h>
2  #define max 5
3  #define true 1
4  #define false 0
5
6  int q[max];
7  int rear = -1;
8  int front = -1;
9  int b2 = 0;
10
11 void insert()
12 {
13     int add;
14     if (rear-b2 == max - 1)
15     {
16         printf("Queue Overflow (Queue Penuh BOS)");
17     }
18     else
19     {
20         printf("Masukkan nilai elemen Queue : ");
21         scanf("%d", &add);
22         rear = rear + 1;
23         q[rear] = add;
24         front = rear;
25     }
26 }
27
28 void del()
29 {
30     if (rear == b2 - 1)
31     {
32         printf("Queue Underflow (Queue Kosong BOS)");
33     }
34     else
```

```

35     {
36         printf("Queue yang dihapus : --> %d\n", q[b2]);
37         front= front - 1;
38         b2 = b2 + 1;
39     }
40 }
41
42 void display()
43 {
44     int i;
45     if (rear == b2 - 1)
46     {
47         printf("Queue Kosong!");
48     }
49     else
50     {
51         printf("Nilai elemen queue adalah : \n\n");
52         printf(" --> ");
53         for (i = rear; i >= b2; i--)
54         {
55             printf("\t%d ", q[i]);
56             printf(" ");
57         }printf(" --> ");
58         printf("\nfront berada di:%d\n",q[b2]);
59         printf("rear berada di:%d\n",q[rear]);
60     }
61 }
62
63 int main(int argc, char **argv)
64 {
65     int pilihan;
66     while(1)
67     {

```

```

68     printf("\n\n");
69     printf("== Created by SAS ==\n");
70     printf("|  OPERASI QUEUE  |\n");
71     printf("+-----+\n");
72     printf("| 1. Input Queue  |\n");
73     printf("| 2. Hapus Queue  |\n");
74     printf("| 3. Cetak Queue  |\n");
75     printf("| 4. Keluar       |\n");
76     printf("+-----+\n");
77     printf("Masukkan pilihan : "); scanf("%d", &pilihan);
78     switch (pilihan)
79     {
80         case 1:
81         {
82             insert(); break;
83         }
84         case 2:
85         {
86             del(); break;
87         }
88         case 3:
89         {
90             display(); break;
91         }
92         case 4:
93         {
94             exit(1);
95         }
96         default:
97         {
98             printf("Salah pilih...\n");
99         }
100     }
101 }
102 return 0;
103 }
104

```

== Created by SAS ==

| OPERASI QUEUE |

+-----+

| 1. Input Queue |

| 2. Hapus Queue |

| 3. Cetak Queue |

| 4. Keluar |

+-----+

Masukkan pilihan : 1

Masukkan nilai elemen Queue : 1

77

78

79

== Created by SAS ==

| OPERASI QUEUE |

+-----+

| 1. Input Queue |

| 2. Hapus Queue |

| 3. Cetak Queue |

| 4. Keluar |

+-----+

Masukkan pilihan : 1

Masukkan nilai elemen Queue : 2

88

89

== Created by SAS ==

| OPERASI QUEUE |

+-----+

| 1. Input Queue |

| 2. Hapus Queue |

| 3. Cetak Queue |

| 4. Keluar |

+-----+

Masukkan pilihan : 1

Masukkan nilai elemen Queue : 3

99

100

== Created by SAS ==

| OPERASI QUEUE |

+-----+

| 1. Input Queue |

| 2. Hapus Queue |

| 3. Cetak Queue |

| 4. Keluar |

+-----+

Masukkan pilihan : 1

Masukkan nilai elemen Queue : 4

77

78

79

== Created by SAS ==

| OPERASI QUEUE |

+-----+

| 1. Input Queue |

| 2. Hapus Queue |

| 3. Cetak Queue |

| 4. Keluar |

+-----+

Masukkan pilihan : 1

Masukkan nilai elemen Queue : 5

88

89

== Created by SAS ==

| OPERASI QUEUE |

+-----+

| 1. Input Queue |

| 2. Hapus Queue |

| 3. Cetak Queue |

| 4. Keluar |

+-----+

Masukkan pilihan : 1

Queue Overflow (Queue Penuh BOS)

99

100

```

Masukkan pilihan : 3
Nilai elemen queue adalah :

--> 5 4 3 2 1 -->
front berada di:1
rear berada di:5
printf("+-----+
72 printf("| 1. Input Queue |
73 printf("| 2. Hapus Queue |
== Created by SAS == printf("| 3. Cetak Queue |
| OPERASI QUEUE | printf("| 4. Keluar |
+-----+ printf("+-----+
| 1. Input Queue | printf("Masukkan pilihan : "
| 2. Hapus Queue | switch (pilihan)
| 3. Cetak Queue |
| 4. Keluar |
+-----+
case 1:
Masukkan pilihan : 2 {
Queue yang dihapus : --> 1 insert(); break;
83 }
84 case 2:
== Created by SAS == {
| OPERASI QUEUE | del(); break;
+-----+
| 1. Input Queue | }
| 2. Hapus Queue | case 3:
| 3. Cetak Queue | {
| 4. Keluar | display(); break;
+-----+
}
Masukkan pilihan : 2 case 4:
Queue yang dihapus : --> 2 {
93 }
94 exit(1);
== Created by SAS == }
| OPERASI QUEUE | default:
+-----+ {
| 1. Input Queue | printf("Salah pilih
| 2. Hapus Queue | }
| 3. Cetak Queue | }
| 4. Keluar | }
+-----+
Masukkan pilihan : 3;
Nilai elemen queue adalah :
104
--> 5 4 3 -->
front berada di:3
rear berada di:5

```



```

Nilai elemen queue adalah :

--> 5 4 3 -->
front berada di:3
rear berada di:5
71 printf("+-----+
72 printf("| 1. Input Queue |
== Created by SAS == printf("| 2. Hapus Queue |
| OPERASI QUEUE | printf("| 3. Cetak Queue |
+-----+ printf("| 4. Keluar |
| 1. Input Queue | printf("+-----+
| 2. Hapus Queue | printf("Masukkan pilihan : "
| 3. Cetak Queue | switch (pilihan)
| 4. Keluar |
+-----+
Masukkan pilihan : 1 case 1:
Masukkan nilai elemen Queue : 6 insert(); break;
82 }
83 case 2:
== Created by SAS == {
| OPERASI QUEUE | del(); break;
+-----+
| 1. Input Queue | }
| 2. Hapus Queue | case 3:
| 3. Cetak Queue | {
| 4. Keluar | display(); break;
+-----+
}
Masukkan pilihan : 1 case 4:
Masukkan nilai elemen Queue : 7 {
92 }
93 exit(1);
== Created by SAS == }
| OPERASI QUEUE | default:
+-----+ {
| 1. Input Queue | printf("Salah pilih
| 2. Hapus Queue | }
| 3. Cetak Queue | }
| 4. Keluar | }
+-----+
Masukkan pilihan : 3
Nilai elemen queue adalah :
103
--> 7 6 5 4 3 -->
front berada di:3
rear berada di:7

```

```

Masukkan pilihan : 3
Nilai elemen queue adalah :
85
86 --> 7 6 5 4 3 -->
87 front berada di:3
88 rear berada di:7
89
== Created by SAS ==
| OPERASI QUEUE |
+-----+
| 1. Input Queue |
| 2. Hapus Queue |
| 3. Cetak Queue |
| 4. Keluar      |
+-----+
Masukkan pilihan : 1
Queue Overflow (Queue Penuh BOS)
tf("Salah pilih..

```



```

== Created by SAS ==
| OPERASI QUEUE |
+-----+
| 1. Input Queue |
| 2. Hapus Queue |
| 3. Cetak Queue |
| 4. Keluar      |
+-----+
Masukkan pilihan : 2
Queue Underflow (Queue Kosong BOS)
88
== Created by SAS ==
| OPERASI QUEUE |
+-----+
| 1. Input Queue |
| 2. Hapus Queue |
| 3. Cetak Queue |
| 4. Keluar      |
+-----+
Masukkan pilihan : 3
Queue Kosong!
92
printf("%d\n", x[3]);

```