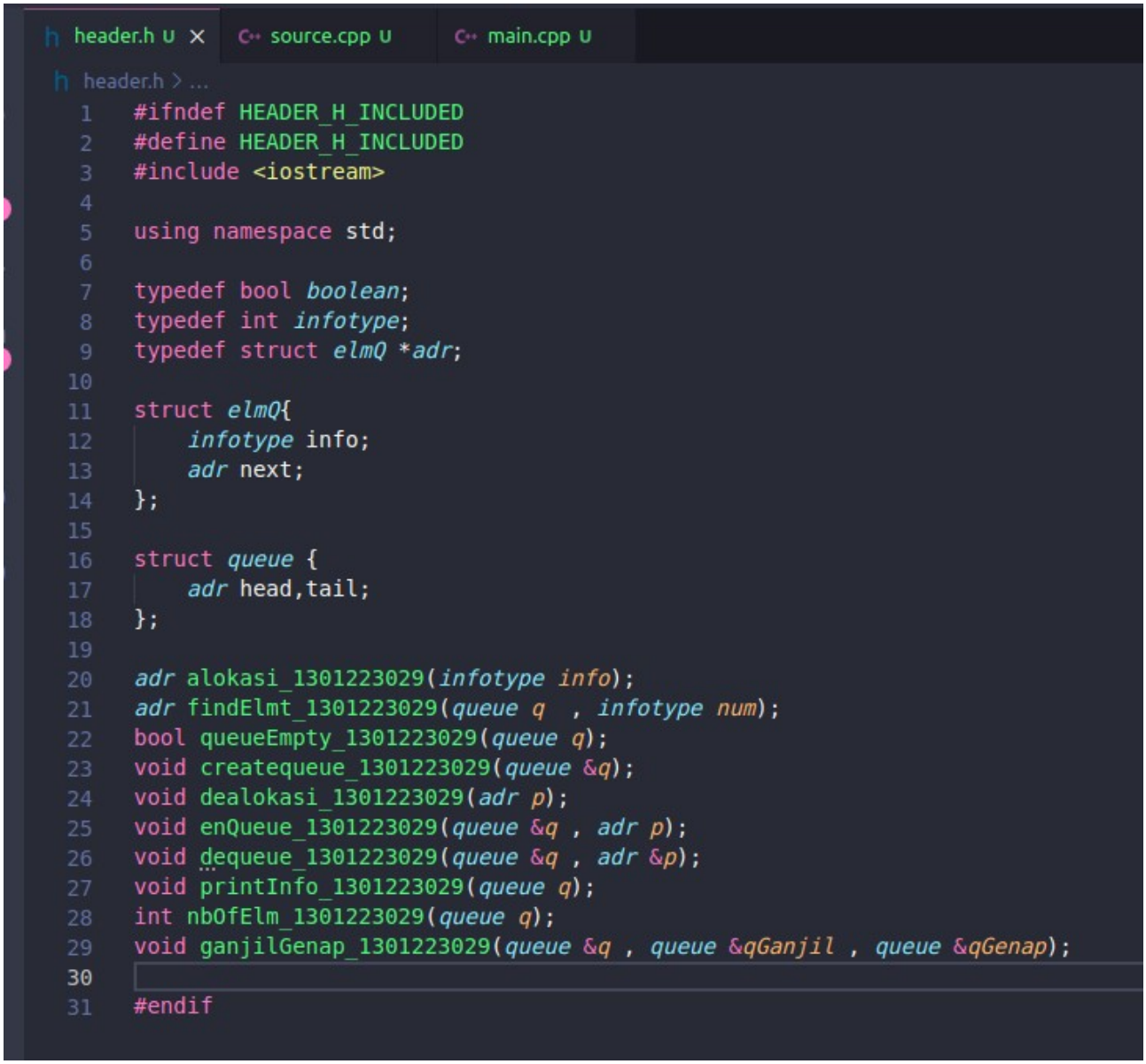
Deore Mufrad Hendrady
1301223029

code
header.h



source.cpp


source.cpp > ganjilGenap_1301223029(queue &, queue &, queue &)
#include "header.h"
adr alokasi_1301223029(infotype info){
adr p ;
p = new elmQ;
p->info = info;
p->next = NULL;
return p;
}
adr findElmt_1301223029(queue q , infotype num){
adr p;
p = q.head;
while (p!= NULL){
if (p->info == num){
return p;
}
p = p->next;
}
return p;
}
bool queueEmpty_1301223029(queue q){
return q.head == NULL;
}
void createqueue_1301223029(queue &q){
q.head = NULL;
q.tail= NULL;
}
void dealokasi_1301223029(adr p){
delete p;
}
void enQueue_1301223029(queue &q , adr p){
if (queueEmpty_1301223029(q)){
q.head = p;
q.tail = p;
}else {
q.tail->next = p;
q.tail = p;
}
}

```
47  }
48  void dequeue_1301223029(queue &q , adr &p){
49      if (queueEmpty_1301223029(q)){
50          cout << "Kosong"<<endl;
51      }else if (q.head == q.tail){
52          p = q.head;
53          q.head = NULL;
54          q.tail = NULL;
55      }else {
56          p = q.head;
57          q.head = p->next ;
58          p->next = NULL;
59      }
60  }
61  void printInfo_1301223029(queue q){
62      adr p;
63      p = q.head;
64      int i = 1;
65      if (queueEmpty_1301223029(q)){
66          cout << "Kosong"<<endl;
67      }else {
68          while (p != NULL){
69              cout <<"Antiran ke-" << i<< " : " <<p->info << endl;
70              p = p->next;
71              i++;
72          }
73
74
75      }
76
77  }
78  int nbOfElm_1301223029(queue q){
79      int jml = 0;
80      adr p ;
81      p = q.head;
82      while (p!=NULL)
83      {
84          jml++;
85          p = p->next;
86      }
87      return jml;
88  }
89
90  void ganjilGenap_1301223029(queue &q , queue &qGanjil , queue &qGenap){
91      adr p ;
92
93      while (!queueEmpty_1301223029(q)){
94          dequeue_1301223029(q,p);
```

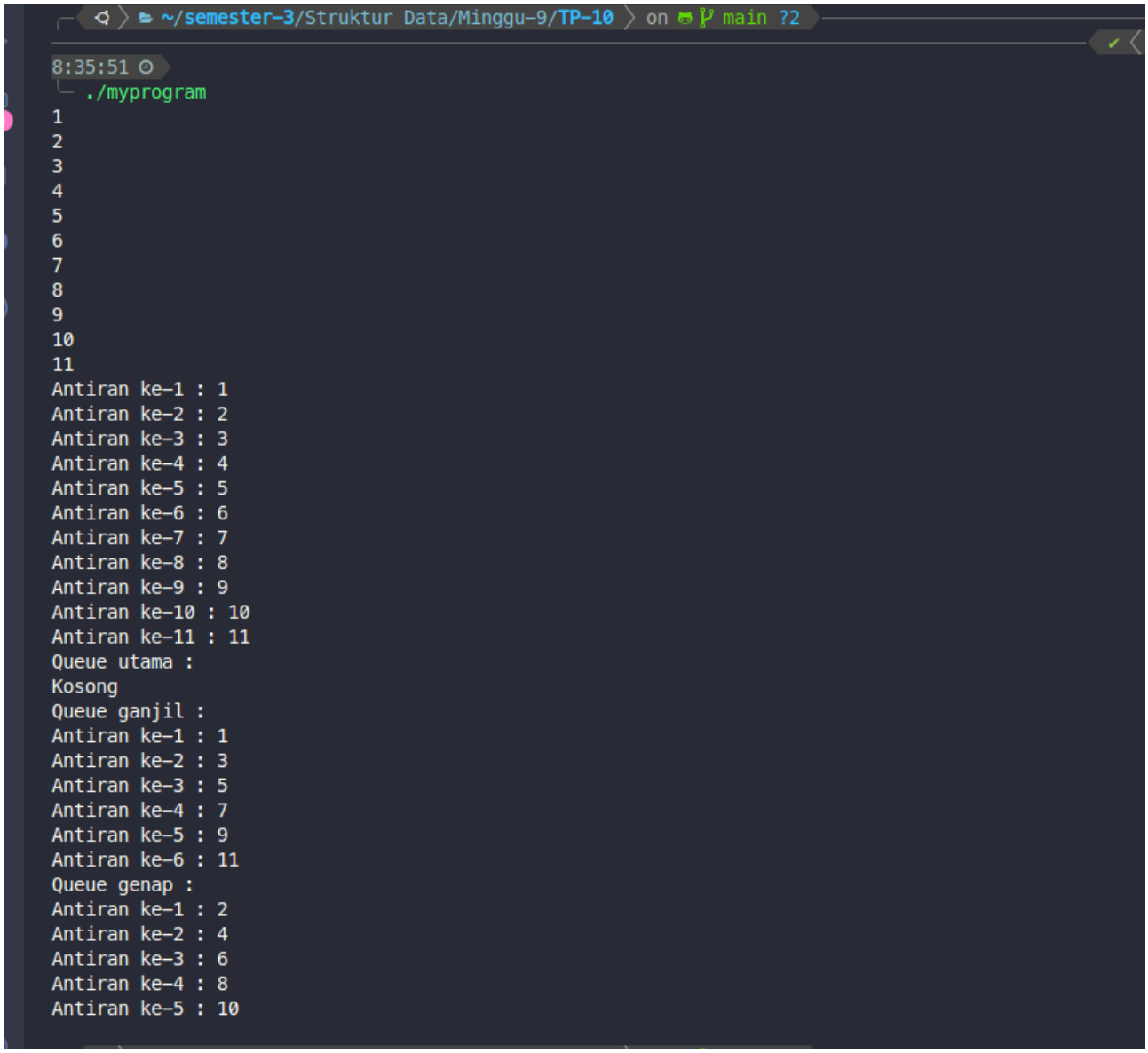
```
}

void ganjilGenap_1301223029(queue &q , queue &qGanjil , queue &qGenap){
    adr p ;

    while (!queueEmpty_1301223029(q)){
        dequeue_1301223029(q,p);
        if (p->info % 2== 0){
            enQueue_1301223029(qGenap , p);
        }else {
            enQueue_1301223029(qGanjil, p);
        }
    }
}
```

main.cpp

main.cpp > ...

```cpp
#include "header.h"

int main(){
    adr p;
    queue q, qGenap, qGanjil;
    infotype x;

    createqueue_1301223029(q);
    createqueue_1301223029(qGenap);
    createqueue_1301223029(qGanjil);


    for (int i = 1 ; i <= 11 ; i++){
        cin >> x;
        p = alokasi_1301223029(x);
        enQueue_1301223029(q,p);
    }


    printInfo_1301223029(q);
    ganjilGenap_1301223029(q,qGanjil,qGenap);

    cout << "Queue utama : "<<endl;
    printInfo_1301223029(q);
    cout << "Queue ganjil : "<<endl;
    printInfo_1301223029(qGanjil);
    cout << "Queue genap : "<<endl;
    printInfo_1301223029(qGenap);
    return 0;
}

/*
```

output


~/semester-3/Struktur Data/Minggu-9/TP-10 on main ?2
8:35:51
./myprogram
1
2
3
4
5
6
7
8
9
10
11
Antiran ke-1 : 1
Antiran ke-2 : 2
Antiran ke-3 : 3
Antiran ke-4 : 4
Antiran ke-5 : 5
Antiran ke-6 : 6
Antiran ke-7 : 7
Antiran ke-8 : 8
Antiran ke-9 : 9
Antiran ke-10 : 10
Antiran ke-11 : 11
Queue utama :
Kosong
Queue ganjil :
Antiran ke-1 : 1
Antiran ke-2 : 3
Antiran ke-3 : 5
Antiran ke-4 : 7
Antiran ke-5 : 9
Antiran ke-6 : 11
Queue genap :
Antiran ke-1 : 2
Antiran ke-2 : 4
Antiran ke-3 : 6
Antiran ke-4 : 8
Antiran ke-5 : 10