**LAPORAN**

**TUGAS BESAR**

**ALGORITMA DAN PEMROGRAMAN**

**RESERVASI HOTEL**

****

**OLEH :**

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# KATA PENGHANTAR

Puji Syukur kami panjatkan kepada Tuhan Yang Maha Esa karena berkat beliau kami dapat menyusun dan membuat tugas besar dalam mata kuliah “**Algoritma dan Pemrograman”** ini dengan baik. Meski mendapatkan kendala, tapi kami bisa melaluinya sehingga laporan tugas besar dengan judul “Reservasi Hotel” ini dapat terselesaikan tepat waktu.

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Laporan pembuatan Program Reservasi Hotel menggunakan Bahasa Pemrograman C ini sangat berkesan untuk kami secara personal. Alasan kami memilih topik ini karena ingin belajar membuat maupun meningkatkan pengetahuan sekaligus menganalisa permasalahan dalam kehidupan sehari – hari menggunakan Bahasa C.

Kami menyadari bahwa Laporan ini masih banyak kekurangan. Sebagai penulis, kami berharap pembaca bisa memberikan kritik agar tulisan selanjutnya jauh lebih baik. Di sisi lain, saya berharap pembaca menemukan pengetahuan baru dari laporan penelitian ini. Walaupun tulisan ini tidak sepenuhnya bagus, kami berharap ada manfaat yang bisa diperoleh oleh pembaca. Demikian sepatah dua patah kata dari saya. Terima kasih.

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# BAB 1

## **PENDAHULUAN**

### Latar Belakang

Di dunia sekarang ini, cara memfungsikan dan mengelola sistem telah sepenuhnya berubah. Ada perubahan mendadak dan tiba-tiba dalam pemeliharaan struktur dan modifikasi, penanganan, leveling di dalam setiap sistem. Tanpa mengelola sistem melalui aplikasi komputer dan pemrograman, pembangunan infrastruktur belum selesai.

Ada banyak kesalahan dan kelemahan tanpa menggunakan pemrograman dan aplikasi komputer. Seperti yang kita tahu bahwa, "kebutuhan adalah ibu dari penemuan", begitu dalam tantangan hari ini dunia, setiap sistem dikembangkan dan diluncurkan dengan menggunakan perangkat lunak komputer dan pemrograman.

Karena Pelanggan dan hotel adalah dua istilah bidang bisnis yang terkait, seharusnya ada menjadi cara pengelolaan yang tepat. Judul proyek terkait dengan hotel yaitu, “Reservasi Management Hotel ”. sistem manajemen reservasi hotel berurusan dengan catatan dasar pelanggan dan staf admin, detail kamar, billing, laporan pemesanan, dll. dari hotel. Karena jumlah hotel yang terus bertambah di dunia, itu sangat cukup untuk ditangani berkas dan data penting hotel secara benar, efisien dan sistematis. Lokasi ini data mungkin tidak akurat dan sulit diakses saat dibutuhkan.

Jadi dengan menggunakan Sistem Manajemen Reservasi Hotel, pengguna dapat dengan mudah memelihara file dan catatan secara sistematis. Hanya pengguna yang berwenang diizinkan untuk masuk melalui sistem. Sehingga keamanan juga terjaga di dalam sistem. Fitur lain dari sistem manajemen ini adalah penyimpanan file dengan aman, akses mudah kapan saja diperlukan, penambahan, penghapusan dan modifikasi data.

### Rumusan Masalah

Penulis telah menyusun beberapa poin yang akan dibahas dalam Laporan ini. Diantaranya adalah sebagai berikut :

1. Cara menganalisa Sistem Reservasi Management Hotel?
2. Cara menyelesaikan suatu permasalahan Sistem Reservasi Managament Hotel?
3. Cara membuat Program komputer Bahasa C Sistem Reservasi Management Hotel ?

### Tujuan Pembuatan Laporan

Berdasarkan rumusan masalah yang telah dibuat, maka tujuan dari penulisan Laporan ini adalah sebagai berikut :

1. Memahami cara menganalisa Sistem Reservasi Management Hotel
2. Memahami cara menyelesaikan suatu permasalahan dalam Sistem Reservasi Management Hotel
3. Memahami alur pembuatan program komputer menggunakan Bahasa C dalam membuat Sistem Reservasi Management Hotel
4. Memahami Alur Algoritma dan Flowchart serta pseudocode dalam programnya
5. Menyelesaikan tugas atau project besar Algoritma dan Pemrograman menggunakan Bahasa C Program

# BAB 2

## **PEMBAHASAN**

### Deklarasi Variabel dan Tipe Data

#### Struct login

* **Char** username [50]
* **Char** Password [10]
* **Char** no\_hp [15]
* **Char** email [40]
* **Char** nama[50]

#### Struct login user

#### Struct Pesan

* **Char** id\_pemesanan[10]
* **Char** nama[50]
* **Char** no\_hp[15]
* **Int** umur
* **Char** jenis\_kelamin[10]
* **Int** kamar
* **Int** jumlah\_kamar
* **Int** lama\_sewa
* **Int** total
* **Int** pilih\_kamar
* **Int** tglCI
* **Int** blnCI
* **Int** thnCI
* **Int** tglCO
* **Int** blnCO
* **Int** thnCO
* **Int** pilih

#### Struct pesan pesanan

* **Int** jumlah\_standard=16
* **Int** jumlah\_superior=12
* **Int** jumlah\_deluxe=10
* **Int** jumlah\_suite=8
* **Int** jumlah\_presidential=4
* **Int** add1=100000
* **Int** add2=200000
* **Int** standard=450000
* **Int** superior=800000
* **Int** deluxe=1000000
* **Int** suite=1500000
* **Int** presidential=2000000
* **Int** biaya\_admin=50000

#### Void waktu()

#### Void hitung\_total()

#### Void selamat()

#### Void keluar()

#### Void billing()

#### Void tambah\_kamar()

#### Void pesan\_kamar()

#### Void pilih\_kamar()

#### Void data\_pemesanan()

#### Void menu\_admin()

#### Void menu\_customer()

#### Void BknFeb()

#### Void login\_user()

#### Void login\_admin()

#### Void form\_customer()

#### Void menu\_masuk()

#### Int main()

#### Void loading()

#### Void ddeluxe()

#### Void februari()

#### Void hapus()

#### Void hari()

#### Void jumlahdel()

#### Void jumlahpres()

#### Void jumlahstd()

#### Void jumlahsuit()

#### Void jumlahsuper()

#### Void kalenderuntukCO()

#### Void ppresedential()

#### Void rooms()

#### Void sstandard()

#### Void ssuite()

#### Void ssuperior()

#### Void tambah\_kamar()

#### Void valid()

### Flowchart Sistem Reservasi Management Hotel

|  |
| --- |
|  |

### Program Sistem Reservasi Managament Hotel

|  |
| --- |
| //CREATOR PROGRAM MANAGEMENT PEMESANAN HOTEL  //Nama : Komang Bayu Lobi Hartawan\_2205551025  //Nama : I Putu Gede Surya Pratama\_2205551032  //Program Studi : Teknologi Informasi  #include <stdio.h>  #include <stdlib.h>  #include <string.h>  #include <time.h>  struct login{  char username[50];  char password[10];  char no\_hp[15];  char email[40];  char nama[50];  };  struct login user;  struct pesan{  int id\_pemesanan;  char nama[50];  int no\_hp;  char jenis\_kelamin[10];  int kamar;  int jumlah\_kamar;  int lama\_sewa;  int total;  int pilih\_kamar;  int tglCI;  int blnCI;  int thnCI;  int tglCO;  int blnCO;  int thnCO;  int pilih;  int nokamar;  char room[20];  };  struct pesan pesanan;  int jumlah\_standard=9;  int jumlah\_superior=8;  int jumlah\_deluxe=7;  int jumlah\_suite=6;  int jumlah\_presidential=4;  int add1=100000;  int add2=200000;  int hari1;  int standard=450000;  int superior=800000;  int deluxe=1000000;  int suite=1500000;  int presidential=2000000;  char akun[]="akun.txt";  int biaya\_admin=50000;  void menu\_masuk();  void form\_customer();  void rooms();  void menu\_admin();  void waktu(){  time\_t pukul;  struct tm\*waktu;  time(&pukul);  waktu=localtime(&pukul);  printf("\t\t\t\t\t Tanggal : %s", asctime(waktu));  }  void valid(int \*var){  char buffer[1000];  fgets(buffer, sizeof(buffer), stdin);  while(sscanf(buffer, "%d",var)!=1){  printf("\t\t\t\tInput hanya berupa angka\n");  printf("\t\t\t\tMasukan Lagi : ");  fgets(buffer, sizeof(buffer), stdin);  }  }  void hitung\_total(){  if(pesanan.pilih\_kamar==1 && pesanan.pilih==1){  jumlah\_standard -= pesanan.jumlah\_kamar;  pesanan.total = (pesanan.lama\_sewa\*standard+biaya\_admin)\*pesanan.jumlah\_kamar+add1;  }else if(pesanan.pilih\_kamar==1 && pesanan.pilih==2){  jumlah\_standard -= pesanan.jumlah\_kamar;  pesanan.total = (pesanan.lama\_sewa\*standard+biaya\_admin)\*pesanan.jumlah\_kamar+add2;  }else if(pesanan.pilih\_kamar==1){  jumlah\_standard -= pesanan.jumlah\_kamar;  pesanan.total = (pesanan.lama\_sewa\*standard+biaya\_admin)\*pesanan.jumlah\_kamar;    }else if(pesanan.pilih\_kamar==2 && pesanan.pilih==1){  jumlah\_superior -= pesanan.jumlah\_kamar;  pesanan.total = (pesanan.lama\_sewa\*superior+biaya\_admin)\*pesanan.jumlah\_kamar+add1;  }else if(pesanan.pilih\_kamar==2 && pesanan.pilih==2){  jumlah\_superior -= pesanan.jumlah\_kamar;  pesanan.total = (pesanan.lama\_sewa\*superior+biaya\_admin)\*pesanan.jumlah\_kamar+add2;  }else if(pesanan.pilih\_kamar==2){  jumlah\_superior -= pesanan.jumlah\_kamar;  pesanan.total = (pesanan.lama\_sewa\*superior+biaya\_admin)\*pesanan.jumlah\_kamar;    }else if(pesanan.pilih\_kamar==3 && pesanan.pilih==1){  jumlah\_deluxe -= pesanan.jumlah\_kamar;  pesanan.total = (pesanan.lama\_sewa\*deluxe+biaya\_admin)\*pesanan.jumlah\_kamar+add1;  }else if(pesanan.pilih\_kamar==3 && pesanan.pilih==2){  jumlah\_deluxe -= pesanan.jumlah\_kamar;  pesanan.total = (pesanan.lama\_sewa\*deluxe+biaya\_admin)\*pesanan.jumlah\_kamar+add2;  }else if(pesanan.pilih\_kamar==3){  jumlah\_deluxe -= pesanan.jumlah\_kamar;  pesanan.total = (pesanan.lama\_sewa\*deluxe+biaya\_admin)\*pesanan.jumlah\_kamar;    }else if(pesanan.pilih\_kamar==4 && pesanan.pilih==1){  jumlah\_suite -= pesanan.jumlah\_kamar;  pesanan.total = (pesanan.lama\_sewa\*suite+biaya\_admin)\*pesanan.jumlah\_kamar+add1;  }else if(pesanan.pilih\_kamar==4 && pesanan.pilih==2){  jumlah\_suite -= pesanan.jumlah\_kamar;  pesanan.total = (pesanan.lama\_sewa\*suite+biaya\_admin)\*pesanan.jumlah\_kamar+add2;  }else if(pesanan.pilih\_kamar==4){  jumlah\_suite -= pesanan.jumlah\_kamar;  pesanan.total = (pesanan.lama\_sewa\*suite+biaya\_admin)\*pesanan.jumlah\_kamar+add1;    }else if(pesanan.pilih\_kamar==5 && pesanan.pilih==1){  jumlah\_presidential -= pesanan.jumlah\_kamar;  pesanan.total = (pesanan.lama\_sewa\*presidential+biaya\_admin)\*pesanan.jumlah\_kamar+add1;  }else if(pesanan.pilih\_kamar==5 && pesanan.pilih==2){  jumlah\_presidential -= pesanan.jumlah\_kamar;  pesanan.total = (pesanan.lama\_sewa\*presidential+biaya\_admin)\*pesanan.jumlah\_kamar+add2;  }else if(pesanan.pilih\_kamar==5){  jumlah\_presidential -= pesanan.jumlah\_kamar;  pesanan.total = (pesanan.lama\_sewa\*presidential+biaya\_admin)\*pesanan.jumlah\_kamar;  }  }  void selamat(){  printf("\t\t\t\t+=======================================================+\n");  printf("\t\t\t\t| |\n");  printf("\t\t\t\t| <----- SELAMAT DATANG DI DIAMOND HOTEL -----> |\n");  printf("\t\t\t\t| |\n");  printf("\t\t\t\t+=======================================================+\n");  printf("\t\t\t\t| Come with a dream leave with the future |\n");  printf("\t\t\t\t+=======================================================+\n");  printf("\t\t\t\t|| ||\n");  printf("\t\t\t\t||-----------------------------------------------------||\n");  printf("\t\t\t\t|| \* \* \* ||\n");  printf("\t\t\t\t|| \*\*\* \*\*\* \*\*\* ||\n");  printf("\t\t\t\t|| \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* ||\n");  printf("\t\t\t\t|| \*\*\*\*\*\*\* \*\*\*\*\*\*\* \*\*\*\*\*\*\* ||\n");  printf("\t\t\t\t|| \*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\* ||\n");  printf("\t\t\t\t|| \*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\* ||\n");  printf("\t\t\t\t|| \*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\* ||\n");  printf("\t\t\t\t|| \*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\* ||\n");  printf("\t\t\t\t|| \*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\* ||\n");  printf("\t\t\t\t|| \*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\* ||\n");  printf("\t\t\t\t|| \*\*\*\*\*\*\* \*\*\*\*\*\*\* \*\*\*\*\*\*\* ||\n");  printf("\t\t\t\t|| \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* ||\n");  printf("\t\t\t\t|| \*\*\* \*\*\* \*\*\* ||\n");  printf("\t\t\t\t|| \* \* \* ||\n");  printf("\t\t\t\t|| ||\n");  printf("\t\t\t\t+-------------------------------------------------------+\n");  printf("\t\t\t\t| Silahkan Tekan Tombol Apapun Untuk Masuk Ke Program!! |\n");  printf("\t\t\t\t+=======================================================+\n");  }  void keluar(){  printf("\t\t\t\t+==============================================================+\n");  printf("\t\t\t\t|| TERIMA KASIH TELAH BERKUNJUNG DI DIAMOND HOTEL ||\n");  printf("\t\t\t\t+==============================================================+\n");  waktu();  printf("\t\t\t\t+==============================================================+\n");  printf("\t\t\t\t|| PROGRAM CREATOR : ||\n");  printf("\t\t\t\t|| ||\n");  printf("\t\t\t\t|| Komang Bayu Lobi Hartawan\_2205551032 ||\n");  printf("\t\t\t\t|| I Putu Gede Surya Pratama\_2205551025 ||\n");  printf("\t\t\t\t|| ||\n");  printf("\t\t\t\t|| Teknologi Informasi ||\n");  printf("\t\t\t\t|| Fakultas Teknik ||\n");  printf("\t\t\t\t|| Universitas Udayana ||\n");  printf("\t\t\t\t+==============================================================+\n");  }  void tambah\_kamar(){  char pilihan;  system("cls");  printf("\t\t\t\t+=======================================================+\n");  printf("\t\t\t\t| Penambahan Fasilitas Ekstra Bed |\n");  printf("\t\t\t\t=========================================================\n");  printf("\t\t\t\t| NO | Jenis Bed | Harga Bed |\n");  printf("\t\t\t\t=========================================================\n");  printf("\t\t\t\t| 1 | Single Bed | -Rp 100.000 |\n");  printf("\t\t\t\t| 2 | Double Bed | -Rp 200.000 |\n");  printf("\t\t\t\t=========================================================\n");  printf("\t\t\t\tMasukkan Penambahan Fasilitas Ekstra Bed Yang Di Inginkan [1][2][3][4] ==> ");  printf ("\tApakah anda ingin menambah Ekstra Bed[y][t] ?");  fflush(stdin);  scanf (" %c", &pilihan);  if(pilihan=='y'){  fflush(stdin);  printf("Masukan Nomor Bed Yang Ingin Di Request [max 1]");  valid(&pesanan.pilih);  fflush(stdin);  if(pesanan.pilih==1){  printf("Anda Memilih Single Bed dengan Harga Rp 100.000");  }else if(pesanan.pilih==2){  fflush(stdin);  printf("Anda Memilih Double Bed dengan Harga Rp 200.000");  }else{  printf("angka tidak valid");  tambah\_kamar();  }  }else if(pilihan=='t'){  printf("\n");  }else if(pilihan!='y' && pilihan != 't'){  printf("Masukan Ulang\n");  system("pause");  tambah\_kamar();  }    }  void hari (){  switch (hari1){  case 1 : printf ("\t\t\tSENIN"); break ;  case 2 : printf ("\t\t\tSELASA"); break ;  case 3 : printf ("\t\t\tRABU"); break ;  case 4 : printf ("\t\t\tKAMIS"); break ;  case 5 : printf ("\t\t\tJUMAT"); break ;  case 6 : printf ("\t\t\tSABTU"); break ;  case 7 : printf ("\t\t\tMINGGU"); break ;  }  }  int BknFeb (int thn, int bln){  thn = pesanan.thnCI;  bln = pesanan.blnCI;    if ((pesanan.blnCI==1) || (pesanan.blnCI==3) || (pesanan.blnCI==5) || (pesanan.blnCI==7) || (pesanan.blnCI==8) || (pesanan.blnCI==10) || (pesanan.blnCI==12)){  return 31 ;  }  else {  return 30 ;  }  }  int Februari (int thn){  thn = pesanan.thnCI;  if ((pesanan.thnCI % 100 != 0) && (pesanan.thnCI % 4 == 0)||(pesanan.thnCI % 400 == 0)){  return 29 ;  }  else {  return 28 ;  }  }  void kalenderuntukCO (){    pesanan.tglCO;  pesanan.blnCO;  pesanan.thnCO;  //menggunakan do while  do {  if (pesanan.lama\_sewa <= 31)  {  if (pesanan.blnCI == 2)  pesanan.tglCO = Februari (pesanan.thnCI);  else  pesanan.tglCO = BknFeb (pesanan.thnCI,pesanan.blnCI);    if (pesanan.tglCI + pesanan.lama\_sewa > pesanan.tglCO)  {  pesanan.blnCO = pesanan.blnCI + 1 ;  if (pesanan.blnCO>12){  pesanan.thnCO=pesanan.thnCI+1;  pesanan.blnCO=1;  }  else  pesanan.thnCO = pesanan.thnCI ;  pesanan.tglCO = pesanan.tglCI + pesanan.lama\_sewa - pesanan.tglCO ;  }  else  {  pesanan.tglCO= pesanan.tglCI+pesanan.lama\_sewa;  pesanan.blnCO=pesanan.blnCI;  pesanan.thnCO=pesanan.thnCI;  }    }  else  {  if (pesanan.blnCI == 2)  pesanan.tglCO = Februari (pesanan.blnCI);  else  pesanan.tglCO = BknFeb (pesanan.thnCI,pesanan.blnCI);  pesanan.lama\_sewa = pesanan.lama\_sewa - pesanan.tglCO;  if (pesanan.blnCI == 12)  {  pesanan.blnCI = 1 ;  pesanan.thnCI = pesanan.thnCI + 1 ;  }  else  pesanan.blnCI = pesanan.blnCI + 1 ;  }  }  while (pesanan.thnCO== 0);  }  void loading(){  printf("\t\t\t\t\t\t+-----------------------+\n");  printf("\t\t\t\t\t\t| LOADING... |\n");  printf("\t\t\t\t\t\t+-----------------------+\n");  sleep(2);  system("cls");    }  void biling(){  system("cls");  waktu();  printf("\t+=======================================================+\n");  printf("\t| DIAMOND HOTEL's BILLING |\n");  printf("\t=========================================================\n");  printf("\tNIK Pemesan : %d\n", pesanan.id\_pemesanan);  printf("\t---------------------------------------------------------\n");  printf("\tNama : %s\n", pesanan.nama);  printf("\t---------------------------------------------------------\n");  printf("\tNo\_Hp : %d\n", pesanan.no\_hp);  printf("\t---------------------------------------------------------\n");  printf("\tjenis Kelamin : %s\n", pesanan.jenis\_kelamin);  printf("\t---------------------------------------------------------\n");  printf("\tJumlah Kamar : %d\n", pesanan.jumlah\_kamar);  printf("\t---------------------------------------------------------\n");  printf("\tNomor Kamar : %s\n", pesanan.room);  printf("\t---------------------------------------------------------\n");  printf("\tLama Inap : %d Hari\n", pesanan.lama\_sewa);  printf("\t=========================================================\n");  printf("\tTanggal Check In : ", pesanan.tglCI, pesanan.blnCI, pesanan.thnCI);  hari ();  printf("\%d/%d/%d\n", pesanan.tglCI, pesanan.blnCI, pesanan.thnCI);  kalenderuntukCO ();  hari1=hari1+(pesanan.lama\_sewa%7);  while(hari1>7)  hari1=hari1%7;  printf ("\tCheck Out :");  hari();  printf ("%d/%d/%d\n", pesanan.tglCO,pesanan.blnCO, pesanan.thnCO) ;  printf("\tTotal Harga : Rp. %d\n\n", pesanan.total);  printf("\t+=======================================================+\n");  printf("\t| TERIMA KASIH TELAH MEMESAN |\n");  printf("\t| HOTEL DIAMOND |\n");  printf("\t+=======================================================+\n");  }  void jumlahstd(){  FILE \*file;  char filename[]="roomstd.txt";  file = fopen(filename, "r");  if (file == NULL){  printf("Error opening file.\n");  }  int current\_line = 0;  char c;  do {  c = fgetc(file);  if (c == '\n') current\_line++;  } while (c != EOF);  fclose(file);  printf("Jumlah Kamar Yang Tersedia: %d\n", current\_line);  FILE\* view;  view = fopen("roomstd.txt","r");  printf("\tKamar Yang Tersedia:\n");  while(fscanf(view,"%s",pesanan.room) != -1){  printf("\t%s \n",pesanan.room);  }  fclose(view);  }  void jumlahsuper(){  FILE \*file;  char filename[]="roomsuper.txt";  file = fopen(filename, "r");  if (file == NULL){  printf("Error opening file.\n");  }  int current\_line = 0;  char c;  do {  c = fgetc(file);  if (c == '\n') current\_line++;  } while (c != EOF);  fclose(file);  printf("Jumlah Kamar Yang Tersedia: %d\n", current\_line);  FILE\* view;  view = fopen("roomsuper.txt","r");  printf("\tKamar Yang Tersedia:\n");  while(fscanf(view,"%s",pesanan.room) != -1){  printf("\t%s \n",pesanan.room);  }  fclose(view);  }  void jumlahdel(){  FILE \*file;  char filename[]="roomdel.txt";  file = fopen(filename, "r");  if (file == NULL){  printf("Error opening file.\n");  }  int current\_line = 0;  char c;  do {  c = fgetc(file);  if (c == '\n') current\_line++;  } while (c != EOF);  fclose(file);  printf("Jumlah Kamar Yang Tersedia: %d\n", current\_line);  FILE\* view;  view = fopen("roomdel.txt","r");  printf("\tKamar Yang Tersedia:\n");  while(fscanf(view,"%s",pesanan.room) != -1){  printf("\t%s \n",pesanan.room);  }  fclose(view);  }  void jumlahsuit(){  FILE \*file;  char filename[]="roomsuit.txt";  file = fopen(filename, "r");  if (file == NULL){  printf("Error opening file.\n");  }  int current\_line = 0;  char c;  do {  c = fgetc(file);  if (c == '\n') current\_line++;  } while (c != EOF);  fclose(file);  printf("Jumlah Kamar Yang Tersedia: %d\n", current\_line);  FILE\* view;  view = fopen("roomsuit.txt","r");  printf("\tKamar Yang Tersedia:\n");  while(fscanf(view,"%s",pesanan.room) != -1){  printf("\t%s \n",pesanan.room);  }  fclose(view);  }  void jumlahpres(){  FILE \*file;  char filename[]="roompres.txt";  file = fopen(filename, "r");  if (file == NULL){  printf("Error opening file.\n");  }  int current\_line = 0;  char c;  do {  c = fgetc(file);  if (c == '\n') current\_line++;  } while (c != EOF);  fclose(file);  printf("Jumlah Kamar Yang Tersedia: %d\n", current\_line);  FILE\* view;  view = fopen("roompres.txt","r");  printf("\tKamar Yang Tersedia:\n");  while(fscanf(view,"%s",pesanan.room) != -1){  printf("\t%s \n",pesanan.room);  }  fclose(view);  }  void sstandard(){  FILE \*tmp1;  FILE \*tmp2;  FILE \*fp;  FILE \*enter;  FILE \*view;    //entering guests  fp = fopen("hotelnew.txt","a");  if( fp == NULL){  printf("\nFile Tidak DItemukan");  exit(1);  }  else{  fprintf(fp, "=============================================================================================================================\n");  fprintf(fp, "|Nomor Kamar| ID | NAMA | No\_HP |Jenis Kelamin | Jumlah Kamar | Lama Sewa | Total | Check in | Check out |\n");  fprintf(fp," %s %d %s %d %s %d %d %d %d/%d/%d | %d/%d/%d | \n", pesanan.room,pesanan.id\_pemesanan, pesanan.nama, pesanan.no\_hp, pesanan.jenis\_kelamin, pesanan.jumlah\_kamar,pesanan.lama\_sewa, pesanan.total, pesanan.tglCI, pesanan.blnCI, pesanan.thnCI, pesanan.tglCO, pesanan.blnCO, pesanan.thnCO);  }  fprintf(fp,"\n");    char remove\_guest[20];  strcpy(remove\_guest,pesanan.nama);  char remove\_room[20];  strcpy(remove\_room,pesanan.room);  tmp1 = fopen("tmp1.txt","a");  enter = fopen("file\_pemesanan.txt","r");    while(fscanf(enter," %s %d %s %d %s %d %d %d %d/%d/%d | %d/%d/%d | \n", pesanan.room,pesanan.id\_pemesanan, pesanan.nama, pesanan.no\_hp, pesanan.jenis\_kelamin, pesanan.jumlah\_kamar,pesanan.lama\_sewa, pesanan.total, pesanan.tglCI, pesanan.blnCI, pesanan.thnCI, pesanan.tglCO, pesanan.blnCO, pesanan.thnCO) != -1){  fgetc(enter);  fgets(pesanan.nama, 1000, (FILE\*)enter);  if(strcmp(pesanan.nama,remove\_guest) != 0){  fprintf(tmp1, "=============================================================================================================================\n");  fprintf(tmp1, "|Nomor Kamar| ID | NAMA | No\_HP |Jenis Kelamin | Jumlah Kamar | Lama Sewa | Total | Check in | Check out |\n");  fprintf(tmp1," %s %d %s %d %s %d %d %d %d/%d/%d | %d/%d/%d | \n", pesanan.room,pesanan.id\_pemesanan, pesanan.nama, pesanan.no\_hp, pesanan.jenis\_kelamin, pesanan.jumlah\_kamar,pesanan.lama\_sewa, pesanan.total, pesanan.tglCI, pesanan.blnCI, pesanan.thnCI, pesanan.tglCO, pesanan.blnCO, pesanan.thnCO);  }  }  fclose(enter);  fclose(tmp1);  remove("file\_pemesanan.txt");  rename("tmp1.txt","file\_pemesanan.txt");  fclose(fp);  //removing room  tmp2 = fopen("tmp2.txt","a");  view = fopen("roomstd.txt","r");    while(fscanf(view,"%s",pesanan.room) != -1){  if(strcmp(pesanan.room,remove\_room) != 0){  fprintf(tmp2,"%s",pesanan.room);  fprintf(tmp2,"\n");  }  }  fclose(view);  fclose(tmp2);  remove("roomstd.txt");  rename("tmp2.txt","roomstd.txt");  fclose(fp);  }  void ssuperior(){  FILE \*tmp1;  FILE \*tmp2;  FILE \*fp;  FILE \*enter;  FILE \*view;    //entering guests  fp = fopen("hotelnew.txt","a");  if( fp == NULL){  printf("\nFile Tidak DItemukan");  exit(1);  }  else{  fprintf(fp, "=============================================================================================================================\n");  fprintf(fp, "|Nomor Kamar| ID | NAMA | No\_HP |Jenis Kelamin | Jumlah Kamar | Lama Sewa | Total | Check in | Check out |\n");  fprintf(fp," %s %d %s %d %s %d %d %d %d/%d/%d | %d/%d/%d | \n", pesanan.room,pesanan.id\_pemesanan, pesanan.nama, pesanan.no\_hp, pesanan.jenis\_kelamin, pesanan.jumlah\_kamar,pesanan.lama\_sewa, pesanan.total, pesanan.tglCI, pesanan.blnCI, pesanan.thnCI, pesanan.tglCO, pesanan.blnCO, pesanan.thnCO);  }  fprintf(fp,"\n");  //  char remove\_guest[20];  strcpy(remove\_guest,pesanan.nama);  char remove\_room[20];  strcpy(remove\_room,pesanan.room);  //removing booking  tmp1 = fopen("tmp1.txt","a");  enter = fopen("file\_pemesanan.txt","r");    while(fscanf(enter," %s %d %s %d %s %d %d %d %d/%d/%d | %d/%d/%d | \n", pesanan.room,pesanan.id\_pemesanan, pesanan.nama, pesanan.no\_hp, pesanan.jenis\_kelamin, pesanan.jumlah\_kamar,pesanan.lama\_sewa, pesanan.total, pesanan.tglCI, pesanan.blnCI, pesanan.thnCI, pesanan.tglCO, pesanan.blnCO, pesanan.thnCO) != -1){  fgetc(enter);  fgets(pesanan.nama, 1000, (FILE\*)enter);  if(strcmp(pesanan.nama,remove\_guest) != 0){  fprintf(tmp1, "=============================================================================================================================\n");  fprintf(tmp1, "|Nomor Kamar| ID | NAMA | No\_HP |Jenis Kelamin | Jumlah Kamar | Lama Sewa | Total | Check in | Check out |\n");  fprintf(tmp1," %s %d %s %d %s %d %d %d %d/%d/%d | %d/%d/%d | \n", pesanan.room,pesanan.id\_pemesanan, pesanan.nama, pesanan.no\_hp, pesanan.jenis\_kelamin, pesanan.jumlah\_kamar,pesanan.lama\_sewa, pesanan.total, pesanan.tglCI, pesanan.blnCI, pesanan.thnCI, pesanan.tglCO, pesanan.blnCO, pesanan.thnCO);  }  }  fclose(enter);  fclose(tmp1);  remove("file\_pemesanan.txt");  rename("tmp1.txt","file\_pemesanan.txt");  fclose(fp);  //removing room  tmp2 = fopen("tmp2.txt","a");  view = fopen("roomsuper.txt","r");    while(fscanf(view,"%s",pesanan.room) != -1){  if(strcmp(pesanan.room,remove\_room) != 0){  fprintf(tmp2,"%s",pesanan.room);  fprintf(tmp2,"\n");  }  }  fclose(view);  fclose(tmp2);  remove("roomsuper.txt");  rename("tmp2.txt","roomsuper.txt");  fclose(fp);  }  void ddeluxe(){  FILE \*tmp1;  FILE \*tmp2;  FILE \*fp;  FILE \*enter;  FILE \*view;    //entering guests  fp = fopen("hotelnew.txt","a");  if( fp == NULL){  printf("\nFile Tidak DItemukan");  exit(1);  }  else{  fprintf(fp, "=============================================================================================================================\n");  fprintf(fp, "|Nomor Kamar| ID | NAMA | No\_HP |Jenis Kelamin | Jumlah Kamar | Lama Sewa | Total | Check in | Check out |\n");  fprintf(fp," %s %d %s %d %s %d %d %d %d/%d/%d | %d/%d/%d | \n", pesanan.room,pesanan.id\_pemesanan, pesanan.nama, pesanan.no\_hp, pesanan.jenis\_kelamin, pesanan.jumlah\_kamar,pesanan.lama\_sewa, pesanan.total, pesanan.tglCI, pesanan.blnCI, pesanan.thnCI, pesanan.tglCO, pesanan.blnCO, pesanan.thnCO);  }  fprintf(fp,"\n");  //  char remove\_guest[20];  strcpy(remove\_guest,pesanan.nama);  char remove\_room[20];  strcpy(remove\_room,pesanan.room);  //removing booking  tmp1 = fopen("tmp1.txt","a");  enter = fopen("file\_pemesanan.txt","r");    while(fscanf(enter," %s %d %s %d %s %d %d %d %d/%d/%d | %d/%d/%d | \n", pesanan.room,pesanan.id\_pemesanan, pesanan.nama, pesanan.no\_hp, pesanan.jenis\_kelamin, pesanan.jumlah\_kamar,pesanan.lama\_sewa, pesanan.total, pesanan.tglCI, pesanan.blnCI, pesanan.thnCI, pesanan.tglCO, pesanan.blnCO, pesanan.thnCO) != -1){  fgetc(enter);  fgets(pesanan.nama, 1000, (FILE\*)enter);  if(strcmp(pesanan.nama,remove\_guest) != 0){  fprintf(tmp1, "=============================================================================================================================\n");  fprintf(tmp1, "|Nomor Kamar| ID | NAMA | No\_HP |Jenis Kelamin | Jumlah Kamar | Lama Sewa | Total | Check in | Check out |\n");  fprintf(tmp1," %s %d %s %d %s %d %d %d %d/%d/%d | %d/%d/%d | \n", pesanan.room,pesanan.id\_pemesanan, pesanan.nama, pesanan.no\_hp, pesanan.jenis\_kelamin, pesanan.jumlah\_kamar,pesanan.lama\_sewa, pesanan.total, pesanan.tglCI, pesanan.blnCI, pesanan.thnCI, pesanan.tglCO, pesanan.blnCO, pesanan.thnCO);  }  }  fclose(enter);  fclose(tmp1);  remove("file\_pemesanan.txt");  rename("tmp1.txt","file\_pemesanan.txt");  fclose(fp);  //removing room  tmp2 = fopen("tmp2.txt","a");  view = fopen("roomdel.txt","r");    while(fscanf(view,"%s",pesanan.room) != -1){  if(strcmp(pesanan.room,remove\_room) != 0){  fprintf(tmp2,"%s",pesanan.room);  fprintf(tmp2,"\n");  }  }  fclose(view);  fclose(tmp2);  remove("roomdel.txt");  rename("tmp2.txt","roomdel.txt");  fclose(fp);  }  void ssuite(){  FILE \*tmp1;  FILE \*tmp2;  FILE \*fp;  FILE \*enter;  FILE \*view;    //entering guests  fp = fopen("hotelnew.txt","a");  if( fp == NULL){  printf("\nFile Tidak DItemukan");  exit(1);  }  else{  fprintf(fp, "=============================================================================================================================\n");  fprintf(fp, "|Nomor Kamar| ID | NAMA | No\_HP |Jenis Kelamin | Jumlah Kamar | Lama Sewa | Total | Check in | Check out |\n");  fprintf(fp," %s %d %s %d %s %d %d %d %d/%d/%d | %d/%d/%d | \n", pesanan.room,pesanan.id\_pemesanan, pesanan.nama, pesanan.no\_hp, pesanan.jenis\_kelamin, pesanan.jumlah\_kamar,pesanan.lama\_sewa, pesanan.total, pesanan.tglCI, pesanan.blnCI, pesanan.thnCI, pesanan.tglCO, pesanan.blnCO, pesanan.thnCO);  }  fprintf(fp,"\n");  //  char remove\_guest[20];  strcpy(remove\_guest,pesanan.nama);  char remove\_room[20];  strcpy(remove\_room,pesanan.room);  //removing booking  tmp1 = fopen("tmp1.txt","a");  enter = fopen("file\_pemesanan.txt","r");    while(fscanf(enter," %s %d %s %d %s %d %d %d %d/%d/%d | %d/%d/%d | \n", pesanan.room,pesanan.id\_pemesanan, pesanan.nama, pesanan.no\_hp, pesanan.jenis\_kelamin, pesanan.jumlah\_kamar,pesanan.lama\_sewa, pesanan.total, pesanan.tglCI, pesanan.blnCI, pesanan.thnCI, pesanan.tglCO, pesanan.blnCO, pesanan.thnCO) != -1){  fgetc(enter);  fgets(pesanan.nama, 1000, (FILE\*)enter);  if(strcmp(pesanan.nama,remove\_guest) != 0){  fprintf(tmp1, "=============================================================================================================================\n");  fprintf(tmp1, "|Nomor Kamar| ID | NAMA | No\_HP |Jenis Kelamin | Jumlah Kamar | Lama Sewa | Total | Check in | Check out |\n");  fprintf(tmp1," %s %d %s %d %s %d %d %d %d/%d/%d | %d/%d/%d | \n", pesanan.room,pesanan.id\_pemesanan, pesanan.nama, pesanan.no\_hp, pesanan.jenis\_kelamin, pesanan.jumlah\_kamar,pesanan.lama\_sewa, pesanan.total, pesanan.tglCI, pesanan.blnCI, pesanan.thnCI, pesanan.tglCO, pesanan.blnCO, pesanan.thnCO);  }  }  fclose(enter);  fclose(tmp1);  remove("file\_pemesanan.txt");  rename("tmp1.txt","file\_pemesanan.txt");  fclose(fp);  //removing room  tmp2 = fopen("tmp2.txt","a");  view = fopen("roomsuit.txt","r");    while(fscanf(view,"%s",pesanan.room) != -1){  if(strcmp(pesanan.room,remove\_room) != 0){  fprintf(tmp2,"%s",pesanan.room);  fprintf(tmp2,"\n");  }  }  fclose(view);  fclose(tmp2);  remove("roomsuit.txt");  rename("tmp2.txt","roomsuit.txt");  fclose(fp);  }  void ppresidential(){  FILE \*tmp1;  FILE \*tmp2;  FILE \*fp;  FILE \*enter;  FILE \*view;    //entering guests  fp = fopen("hotelnew.txt","a");  if( fp == NULL){  printf("\nFile Tidak DItemukan");  exit(1);  }  else{  fprintf(fp, "=============================================================================================================================\n");  fprintf(fp, "|Nomor Kamar| ID | NAMA | No\_HP |Jenis Kelamin | Jumlah Kamar | Lama Sewa | Total | Check in | Check out |\n");  fprintf(fp," %s %d %s %d %s %d %d %d %d/%d/%d | %d/%d/%d | \n", pesanan.room,pesanan.id\_pemesanan, pesanan.nama, pesanan.no\_hp, pesanan.jenis\_kelamin, pesanan.jumlah\_kamar,pesanan.lama\_sewa, pesanan.total, pesanan.tglCI, pesanan.blnCI, pesanan.thnCI, pesanan.tglCO, pesanan.blnCO, pesanan.thnCO);  }  fprintf(fp,"\n");  char remove\_guest[20];  strcpy(remove\_guest,pesanan.nama);  char remove\_room[20];  strcpy(remove\_room,pesanan.room);  //removing booking  tmp1 = fopen("tmp1.txt","a");  enter = fopen("file\_pemesanan.txt","r");    while(fscanf(enter," %s %d %s %d %s %d %d %d %d/%d/%d | %d/%d/%d | \n", pesanan.room,pesanan.id\_pemesanan, pesanan.nama, pesanan.no\_hp, pesanan.jenis\_kelamin, pesanan.jumlah\_kamar,pesanan.lama\_sewa, pesanan.total, pesanan.tglCI, pesanan.blnCI, pesanan.thnCI, pesanan.tglCO, pesanan.blnCO, pesanan.thnCO) != -1){  fgetc(enter);  fgets(pesanan.nama, 1000, (FILE\*)enter);  if(strcmp(pesanan.nama,remove\_guest) != 0){  fprintf(tmp1, "=============================================================================================================================\n");  fprintf(tmp1, "|Nomor Kamar| ID | NAMA | No\_HP |Jenis Kelamin | Jumlah Kamar | Lama Sewa | Total | Check in | Check out |\n");  fprintf(tmp1," %s %d %s %d %s %d %d %d %d/%d/%d | %d/%d/%d | \n", pesanan.room,pesanan.id\_pemesanan, pesanan.nama, pesanan.no\_hp, pesanan.jenis\_kelamin, pesanan.jumlah\_kamar,pesanan.lama\_sewa, pesanan.total, pesanan.tglCI, pesanan.blnCI, pesanan.thnCI, pesanan.tglCO, pesanan.blnCO, pesanan.thnCO);  }  }  fclose(enter);  fclose(tmp1);  remove("file\_pemesanan.txt");  rename("tmp1.txt","file\_pemesanan.txt");  fclose(fp);  //removing room  tmp2 = fopen("tmp2.txt","a");  view = fopen("roompres.txt","r");    while(fscanf(view,"%s",pesanan.room) != -1){  if(strcmp(pesanan.room,remove\_room) != 0){  fprintf(tmp2,"%s",pesanan.room);  fprintf(tmp2,"\n");  }  }  fclose(view);  fclose(tmp2);  remove("roompres.txt");  rename("tmp2.txt","roompres.txt");  fclose(fp);  }  void data\_pemilihan(){  fflush(stdin);  printf("\t+=======================================================+\n");  printf("\t| MASUKAN NOMOR KAMAR |\n");  printf("\t=========================================================\n");  printf("\t----->>[example : 1/2/3 dst...]");  scanf("%s", pesanan.room);  fflush(stdin);  printf("\tMasukan NIK anda :");  valid(&pesanan.id\_pemesanan);  printf("\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");  printf("\tMasukan Nama Anda :");  scanf("%s", &pesanan.nama);  printf("\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");  fflush(stdin);  printf("\tMasukan No\_Hp :");  valid(&pesanan.no\_hp);  printf("\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");  printf("\tMasukan Jenis Kelamin Anda:");  scanf("%s", &pesanan.jenis\_kelamin);  printf("\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");  fflush(stdin);  printf("\tLama Sewa (Masukan angka):");  valid(&pesanan.lama\_sewa);  printf("\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");  printf("\tMasukan Hari Dalam Angka :");  scanf("%d", &hari1);  printf("\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");  printf("\tMasukan Tanggal Check in (dd/mm/yy) :");  scanf("%d/%d/%d", &pesanan.tglCI, &pesanan.blnCI, &pesanan.thnCI);  printf("\t==========================================================\n\n");  printf("\t==========================================================\n\n");  printf("\t\t\t\t==================================\n");  tambah\_kamar();  hitung\_total();  printf("\t\t\t\tTotal Harga : %d\n", pesanan.total);  printf("\t\t\t\t==================================\n");  fflush(stdin);  }  void pesan\_kamar(){  system("cls");  FILE \*pemesanan;  pemesanan=fopen("file\_pemesanan.txt", "a+");  printf("\t+=======================================================+\n");  printf("\t| KODE KAMAR | JENIS KAMAR | HARGA/MALAM |\n");  printf("\t=========================================================\n");  printf("\t| 1 | Standard Room | Rp 450.000 |\n");  printf("\t=========================================================\n");  printf("\t| 2 | Superior Room | Rp 800.000 |\n");  printf("\t=========================================================\n");  printf("\t| 3 | Deluxe Room | Rp 1.000.000 |\n");  printf("\t=========================================================\n");  printf("\t| 4 | Suite Room | Rp 1.500.000 |\n");  printf("\t=========================================================\n");  printf("\t| 5 | Presidential Room | Rp 2.000.000 |\n");  printf("\t=========================================================\n\n");  printf("\t+=======================================================+\n");  printf("\t| PEMESANAN TIPE KAMAR |\n");  printf("\t=========================================================\n");  printf("\tMasukan Kode Kamar Yang Ingin Dipesan ->>");  scanf("%d", &pesanan.pilih\_kamar);  printf("\t=========================================================\n\n");  printf("\n\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");  if(pesanan.pilih\_kamar==1){  fflush(stdin);  ch:  printf("\tJumlah Kamar [Max 1] :");  valid(&pesanan.jumlah\_kamar);  if (pesanan.jumlah\_kamar >1 || pesanan.jumlah\_kamar <1){  printf("\tJika ingin memesan lebih dari 1 kamar silahkan lakukan pemesanan lagi!!!\n");  goto ch;  }  printf("\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");  fflush(stdin);  printf("\t+=======================================================+\n");  printf("\t| NOMOR KAMAR YANG TERSEDIA |\n");  printf("\t=========================================================\n");  jumlahstd();  data\_pemilihan();  biling();  sstandard();  }else if(pesanan.pilih\_kamar==2){  fflush(stdin);  printf("\tJumlah Kamar :");  valid(&pesanan.jumlah\_kamar);  printf("\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");  fflush(stdin);  printf("\t+=======================================================+\n");  printf("\t| NOMOR KAMAR YANG TERSEDIA |\n");  printf("\t=========================================================\n");  jumlahsuper();  data\_pemilihan();  biling();  ssuperior();  }else if(pesanan.pilih\_kamar==3){  fflush(stdin);  printf("\tJumlah Kamar :");  valid(&pesanan.jumlah\_kamar);  printf("\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");  fflush(stdin);  printf("\t+=======================================================+\n");  printf("\t| NOMOR KAMAR YANG TERSEDIA |\n");  printf("\t=========================================================\n");  jumlahdel();  data\_pemilihan();  biling();  ddeluxe();  }else if(pesanan.pilih\_kamar==4){  fflush(stdin);  printf("\tJumlah Kamar :");  valid(&pesanan.jumlah\_kamar);  printf("\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");  fflush(stdin);  printf("\t+=======================================================+\n");  printf("\t| NOMOR KAMAR YANG TERSEDIA |\n");  printf("\t=========================================================\n");  jumlahsuit();  data\_pemilihan();  biling();  ssuite();  }else if(pesanan.pilih\_kamar==5){  fflush(stdin);  printf("\tJumlah Kamar :");  valid(&pesanan.jumlah\_kamar);  printf("\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");  fflush(stdin);  printf("\t+=======================================================+\n");  printf("\t| NOMOR KAMAR YANG TERSEDIA |\n");  printf("\t=========================================================\n");  jumlahpres();  data\_pemilihan();  biling();  ppresidential();  }  else{  printf("\t+=======================================================+\n");  printf("\t| MASUKAN KODE TIPE KAMAR YANG SESUAI!!! |\n");  printf("\t=========================================================\n");  system("pause");  pesan\_kamar();  }    }  void pilih\_kamar(){  system("cls");  printf("\n");  printf("\t=======================================================================================================\n");  printf("\t|========================================Pilih Tipe Kamar Anda========================================|\n");  printf("\t|-----------------------------------------------------------------------------------------------------|\n");  printf("\t| Kode Kamar | Jenis Kamar | Fasilitas | Harga/Malam | Jumlah Kamar |\n");  printf("\t|-----------------------------------------------------------------------------------------------------|\n");  printf("\t| 1 | Standard Room | Kamar berada di lantai 1 & 2. Dengan| Rp 450.000 | %d |\n", jumlah\_standard);  printf("\t| | 6x4 | fasilitas seperti Single Bed, AC, TV| | |\n");  printf("\t| | | Perlengkapan Mandi, WIFI dan Bathtub| | |\n");  printf("\t|-----------------------------------------------------------------------------------------------------|\n");  printf("\t| 2 | Superior Room | Kamar berada di lantai 3 & 4. Dengan| Rp 800.000 | %d |\n", jumlah\_superior);  printf("\t| | 8x4 | fasilitas seperti Twin Bed, AC, TV | | |\n");  printf("\t| | | Perlengkapan Mandi, WIFI dan Bathtub| | |\n");  printf("\t| | | Kamar Mandi with shower, mini bar, | | |\n");  printf("\t| | | balcoon | | |\n");  printf("\t|-----------------------------------------------------------------------------------------------------|\n");  printf("\t| 3 | Deluxe Room | Kamar berada di lantai 5 & 6. Dengan| Rp 1.000.000 | %d |\n", jumlah\_deluxe);  printf("\t| | 9x4 | fasilitas seperti TwinBed/Double Bed| | |\n");  printf("\t| | | Perlengkapan Mandi, WIFI dan Bathtub| | |\n");  printf("\t| | | Kamar Mandi with shower, mini bar, | | |\n");  printf("\t| | | balcoon, Ac, Kulkas, TV, Kopi Maker | | |\n");  printf("\t| | | Meja rias. | | |\n");  printf("\t|-----------------------------------------------------------------------------------------------------|\n");  printf("\t| 4 | Suite Room | Kamar berada di lantai 7 & 8. Dengan| Rp 1.500.000 | %d |\n", jumlah\_suite);  printf("\t| | 8x4 | fasilitas seperti TwinBed/Double Bed| | |\n");  printf("\t| | | Perlengkapan Mandi, WIFI dan Bathtub| | |\n");  printf("\t| | | Kamar Mandi with shower, mini bar, | | |\n");  printf("\t| | | balcoon, Ac, Kulkas, TV, Kopi Maker | | |\n");  printf("\t| | | Meja rias. | | |\n");  printf("\t|-----------------------------------------------------------------------------------------------------|\n");  printf("\t| 5 | Presidential | Kamar berada di lantai 9 & 10.Dengan| Rp 2.000.000 | %d |\n", jumlah\_presidential);  printf("\t| | Room | fasilitas seperti TwinBed/Double Bed| | |\n");  printf("\t| | 10x8 | Perlengkapan Mandi, Bathtub, dapur | | |\n");  printf("\t| | | Kamar Mandi with shower, mini bar, | | |\n");  printf("\t| | | balcoon, Ac, Kulkas, TV, Kopi Maker | | |\n");  printf("\t| | | Meja rias, sofa, ruang tamu terpisah| | |\n");  printf("\t| | | dinning area, meja kerja. | | |\n");  printf("\t|-----------------------------------------------------------------------------------------------------|\n");  printf("\t\t\t\t\t\tMulai Pesan Kamar\n");  printf("\t\t\t\t\t\t\t\t\t\t|-----------------------------|\n");  printf("\t\t\t\t\t\t\t\t\t\t| Tekan Tombol Apapun |\n");  printf("\t|-----------------------------------------------------------------------------------------------------|\n\n");  system("pause");  pesan\_kamar();  }  void data\_pemesanan(){  system("cls");  char buffer[10000];  FILE \*pesan;  pesan=fopen("hotelnew.txt", "r");  if(pesan==NULL){  printf("\t\t\t\t+=======================================================+\n");  printf("\t\t\t\t| DATA FILE TIDAK ADA |\n");  printf("\t\t\t\t=========================================================\n");  exit(0);  }  while(fgets(buffer, sizeof(buffer), pesan)){  printf("%s", buffer);  }  system("pause");  fclose(pesan);  }  void hapus(){  FILE \*fp1, \*fp2;  struct pesan pesanan;  char id;  printf("\t\t\t\t+=======================================================+\n");  printf("\t\t\t\t| Apakah anda yakin menghapus data |\n");  printf("\t\t\t\t=========================================================\n");  printf("\t\t\t\t| y [yes] | n [no] |\n");  printf("\t\t\t\t=========================================================\n");  printf("\t\t\t\tPilihan Anda :");  scanf("\t\t\t\t%c", &id);    fp1=fopen("hotelnew.txt", "r+");  fp2=fopen("Temp\_Data.txt", "a+");  if(fp1==NULL){  fprintf(stderr, "\n\t\t\t\t\t\tDATA TIDAK DITEMUKAN\n");  }  while(fread(&pesanan, sizeof(struct pesan),1,fp1)){  if(pesanan.id\_pemesanan!=id){  fwrite(&pesanan, sizeof(struct pesan), 1,fp2);  }  }  fclose(fp1);  fclose(fp2);  remove("hotelnew.txt");  rename("Data\_Temp.txt", "hotelnew");  printf("\t\t\t\t\t+-------------------------------------+\n");  printf("\t\t\t\t\t| SUKSES HAPUS DATA |\n");  printf("\t\t\t\t\t+-------------------------------------+\n");  }  void rooms(){  int pil;  system("cls");  printf("\t\t\t\t+=======================================================+\n");  printf("\t\t\t\t| MASUKAN PILIHAN KATEGORI KAMAR YANG DI CEK |\n");  printf("\t\t\t\t=========================================================\n");  printf("\t\t\t\t| NO | KATEGORI KAMAR |\n");  printf("\t\t\t\t=========================================================\n");  printf("\t\t\t\t| 1 | STANDARD ROOM |\n");  printf("\t\t\t\t| 2 | SUPERIOR ROOM |\n");  printf("\t\t\t\t| 3 | DELUXE ROOM |\n");  printf("\t\t\t\t| 4 | SUITE ROOM |\n");  printf("\t\t\t\t| 5 | PRESEDENTIAL ROOM |\n");  printf("\t\t\t\t| 6 | KELUAR |\n");  printf("\t\t\t\t=========================================================\n");  printf("\t\t\t\t1. Pilih Kamar/Room Yang Mau Di Cek[1][2][3][4][5]:");  scanf("%d", &pil);  if(pil==1){  system("cls");  jumlahstd();  system("pause");  rooms();  }else if(pil==2){  system("cls");  jumlahsuper();  system("pause");  rooms();  }else if(pil==3){  system("cls");  jumlahdel();  system("pause");  rooms();  }else if(pil==4){  system("cls");  jumlahsuit();  system("pause");  rooms();  }else if(pil==5){  system("cls");  jumlahpres();  system("pause");  rooms();  }else if(pil==6){  system("cls");  menu\_admin();  }else{  printf("Masukan Pilihan Yang Tepat");  system("pause");  menu\_admin();  }  }  void menu\_admin(){  system("cls");  int menu;  printf("\t\t\t\t+=======================================================+\n");  printf("\t\t\t\t| MENU ADMIN |\n");  printf("\t\t\t\t=========================================================\n");  printf("\t\t\t\t| NO | PILIHAN MENU |\n");  printf("\t\t\t\t=========================================================\n");  printf("\t\t\t\t| 1 | ABOUT HOTEL |\n");  printf("\t\t\t\t| 2 | PESAN KAMAR |\n");  printf("\t\t\t\t| 3 | DATA PESANAN |\n");  printf("\t\t\t\t| 4 | CEK KAMAR |\n");  printf("\t\t\t\t| 5 | HAPUS PESANAN |\n");  printf("\t\t\t\t| 6 | KELUAR MENU ADMIN |\n");  printf("\t\t\t\t| 7 | KELUAR PROGRAM |\n");  printf("\t\t\t\t=========================================================\n");  printf("\t\t\t\tMasukkan Nomor Menu Yang Di Inginkan [1][2][3] ==> ");  scanf("%d", &menu);  fflush(stdin);  switch(menu){  case 1:  system("cls");  FILE \*about;  about=fopen("about\_hotel.txt", "r");  char buffer[1000];  while(fgets(buffer, sizeof(buffer), about)){  printf("%s\n", buffer);  }  fclose(about);  system("pause");  menu\_admin();  break;  case 2:  system("cls");  pilih\_kamar();  break;  case 3:  data\_pemesanan();  menu\_admin();  break;  case 4:  rooms();  break;  case 5:  system("cls");  hapus();  break;  case 6:  system("cls");  menu\_masuk();  break;  case 7:  system("cls");  keluar();  break;  default :  system("cls");  printf("\t\t\t\t+---------------------------------------------------------+\n");  printf("\t\t\t\t| Menu yang anda pilih tidak valid |\n");  printf("\t\t\t\t+---------------------------------------------------------+\n");  system("pause");  menu\_admin();  break;        }  }  void menu\_customer(){  system("cls");  int menu;  printf("\t\t\t\t+=======================================================+\n");  printf("\t\t\t\t| MENU CUSTOMER |\n");  printf("\t\t\t\t=========================================================\n");  printf("\t\t\t\t| NO | PILIHAN MENU |\n");  printf("\t\t\t\t=========================================================\n");  printf("\t\t\t\t| 1 | ABOUT HOTEL |\n");  printf("\t\t\t\t| 2 | PESAN KAMAR |\n");  printf("\t\t\t\t| 3 | KELUAR MENU CUSTOMER |\n");  printf("\t\t\t\t=========================================================\n");  printf("\t\t\t\tMasukkan Nomor Menu Yang Di Inginkan [1][2][3] ==> ");  fflush(stdin);  scanf("%d", &menu);  switch(menu){  case 1:  system("cls");  FILE \*about;  about=fopen("about\_hotel.txt", "r");  char buffer[1000];  while(fgets(buffer, sizeof(buffer), about)){  printf("%s\n", buffer);  }  fclose(about);  system("pause");  menu\_customer();  break;  case 2:  system("cls");  pilih\_kamar();  break;  case 3:  system("cls");  form\_customer();  break;  default :  system("cls");  printf("\t\t\t\t+---------------------------------------------------------+\n");  printf("\t\t\t\t| Menu yang anda pilih tidak valid |\n");  printf("\t\t\t\t+---------------------------------------------------------+\n");  system("pause");  menu\_customer();  break;  }  }  void login\_user(){  char username[20];  char password[20];  int pilihan;  FILE \*reg;  reg=fopen(akun, "r");  printf("\t\t\t\t+=======================================================+\n");  waktu();  printf("\t\t\t\t+=======================================================+\n");  printf("\t\t\t\t| MENU LOGIN |\n");  printf("\t\t\t\t+=======================================================+\n");  printf("\t\t\t\t| Masukan Username dan Password Anda! |\n");  printf("\t\t\t\t+=======================================================+\n");  printf("\t\t\t\tUsername :");  scanf("%s", username);  printf("\t\t\t\t---------------------------------------------------------\n");  printf("\t\t\t\tPassword :");  scanf("%s", password);  printf("\t\t\t\t+=======================================================+\n");  while(fread(&user, 1, sizeof(user), reg)){  if(strcmp(username, user.username)==0 && strcmp(password, user.password)==0){  loading();  system("cls");  printf("\t\t\t\t\t\t +--------------+\n");  printf("\t\t\t\t\t\t |Login Berhasil|\n");  printf("\t\t\t\t\t\t +--------------+\n");  system("pause");  menu\_customer();  }else{  loading();  printf("\t\t\t\t\t +----------------------------+\n");  printf("\t\t\t\t\t |Username atau Password Salah|\n");  printf("\t\t\t\t\t +----------------------------+\n");  system("pause");  system("cls");  login\_user();  }  }  fclose(reg);  system("pause");  }  void login\_admin(){  char username\_admin[15];  char password\_admin[15];  int pilihan;  printf("\t\t\t\t+=======================================================+\n");  waktu();  printf("\t\t\t\t+=======================================================+\n\n\n");  printf("\t\t\t\t+=======================================================+\n");  printf("\t\t\t\t| MASUKAN USERNAME & PASSWORD |\n");  printf("\t\t\t\t+=======================================================+\n");  printf("\t\t\t\tUSERNAME : ");  scanf("%s", &username\_admin);  printf("\t\t\t\t---------------------------------------------------------\n");  printf("\t\t\t\tPASSWORD : ");  scanf("%s", &password\_admin);  printf("\t\t\t\t+=======================================================+\n\n");  if(strcmp(username\_admin, "admin")==0 && strcmp(password\_admin, "admin")==0){  loading();  printf("\t\t\t\t\t\t + -------------- +\n");  printf("\t\t\t\t\t\t | LOGIN BERHASIL |\n");  printf("\t\t\t\t\t\t + -------------- +\n");  system("pause");  menu\_admin();  }else{  loading();  printf("\t\t\t\t\t + --------------------------- +\n");  printf("\t\t\t\t\t | USERNAME DAN PASSWORD SALAH |\n");  printf("\t\t\t\t\t + --------------------------- +\n\n");  printf("\t\t\t\t\t + -------------------------------- +\n");  printf("\t\t\t\t\t | Masukan Ulang Username & Password|\n");  printf("\t\t\t\t\t + -------------------------------- +\n");  system("pause");  system("cls");  login\_admin();  }  }  //fungsi form customer  void form\_customer(){  system("cls");  int pilihan;  printf("\t\t\t\t+=========================================================+\n");  printf("\t\t\t\t| FORM CUSTOMER |\n");  printf("\t\t\t\t+=========================================================+\n");  printf("\t\t\t\t| INFORMASI PENTING |\n");  printf("\t\t\t\t| |\n");  printf("\t\t\t\t| 1.Pilih Login jika anda sudah punya akun |\n");  printf("\t\t\t\t| 2.Utamakan Pilih Register jika anda belum punya akun |\n");  printf("\t\t\t\t| |\n");  printf("\t\t\t\t+=========================================================+\n");  printf("\t\t\t\t|| 1 | REGISTER ||\n");  printf("\t\t\t\t|| 2 | LOGIN ||\n");  printf("\t\t\t\t|| 3 | KELUAR FORM CUSTOMER ||\n");  printf("\t\t\t\t|| 4 | KELUAR PROGRAM ||\n");  printf("\t\t\t\t+---------------------------------------------------------+\n");  printf("\t\t\t\t Masukkan nomor menu yang anda inginkan [1][2][3][4] ==> ");  /\*Fungsinya fflush(stdin) adalah untuk membersihkan (atau flush) output buffer dan memindahkan data buffer menuju console  (dalam kasus stdout) atau disk (pada kasus file output stream).\*/  fflush(stdin);  scanf("%d", &pilihan);  system("cls");  if(pilihan==1){  /\* menyimpan data registrasi di file reg dan fungsi w menulis di file \*/  FILE \*reg;  reg=fopen(akun, "w");  if(akun==NULL){  printf("File Tidak DItemukan!\n");  }else{  printf("\t\t\t\t+=========================================================+\n");  printf("\t\t\t\t| SILAHKAN LENGKAPI DATA KETENTUAN DIBAWAH |\n");  printf("\t\t\t\t+=========================================================+\n");  printf("\t\t\t\tMasukan Nama : ");  scanf(" %s", user.nama);  fflush(stdin);  printf("\t\t\t\t---------------------------------------------------------\n");  printf("\t\t\t\tMasukan No HP :");  scanf("%d", user.no\_hp);  fflush(stdin);  printf("\t\t\t\t---------------------------------------------------------\n");  printf("\t\t\t\tMasukan Email Anda :");  scanf("%s", user.email);  fflush(stdin);  printf("\t\t\t\t---------------------------------------------------------\n");  ulang:  printf("\t\t\t\tMasukan Username MAX (8 Karakter) :");  scanf("%s", user.username);  if(strlen(user.username) >= 1 && strlen(user.username) == 8){  printf("\n");  }else{  printf("\t\t\t\tHarus 8 Karakter Bebas\n");  system("pause");  goto ulang;  }  fflush(stdin);  printf("\t\t\t\t---------------------------------------------------------\n");  uulang:  printf("\t\t\t\tMasukan Password MAX (8 Karakter) :");  scanf("%s", user.password);  if(strlen(user.password) >= 1 && strlen(user.password) <= 8){  printf("\n");  }else{  printf("\t\t\t\tHarus 8 Karakter Bebas\n");  system("pause");  goto uulang;  }  fwrite(&user, 1, sizeof(user), reg);  fclose(reg);  fflush(stdin);  printf("\t\t\t\t=========================================================\n");  loading();  system("cls");  printf("\t\t\t\t\t\t + -------------------- +\n");  printf("\t\t\t\t\t\t | AKUN BERHASIL DIBUAT |\n");  printf("\t\t\t\t\t\t + -------------------- +\n");  printf("\t\t\t\t+---------------------------------------------------------+\n");  printf("\t\t\t\t| SILAHKAN SEKARANG PILIH MENU LOGIN |\n");  printf("\t\t\t\t+---------------------------------------------------------+\n");  }  system("pause");  form\_customer();  }else if(pilihan==2){  login\_user();  }else if(pilihan==3){  menu\_masuk();  }else if(pilihan==4){  keluar();  }else{  system("cls");  printf("\t\t\t\t+---------------------------------------------------------+\n");  printf("\t\t\t\t| Menu yang anda pilih tidak valid |\n");  printf("\t\t\t\t+---------------------------------------------------------+\n");  system("pause");  form\_customer();  }  }  void menu\_masuk(){  int pilihan;  printf("\t\t\t\t+=======================================================+\n");  printf("\t\t\t\t| MENU PROGRAM DIAMOND HOTEL |\n");  printf("\t\t\t\t========================================================\n");  printf("\t\t\t\t| NO | PILIHAN MENU |\n");  printf("\t\t\t\t=========================================================\n");  printf("\t\t\t\t| 1 | SEBAGAI ADMIN |\n");  printf("\t\t\t\t| 2 | SEBAGAI CUSTOMER |\n");  printf("\t\t\t\t| 3 | KELUAR PROGRAM |\n");  printf("\t\t\t\t+=======================================================+\n");  printf("\t\t\t\tMasukkan nomor menu yang anda inginkan [1][2][3] ===>| ");  scanf("%d", &pilihan);  system("cls");  switch (pilihan){  case 1:  login\_admin();  break;  case 2:  form\_customer();  break;  case 3:  keluar();  system("pause");  system("cls");  break;  default:  printf("\t\t\t\t+---------------------------------------------------------+\n");  printf("\t\t\t\t| Menu yang anda pilih tidak valid |\n");  printf("\t\t\t\t+---------------------------------------------------------+\n");  printf("\t\t\t\t+---------------------------------------------------------+\n");  printf("\t\t\t\t| Silahkan Masukan Ulang Menu |\n");  printf("\t\t\t\t+---------------------------------------------------------+\n");  system("pause");  fflush(stdin);  system("cls");  menu\_masuk();    }  }  int main(){  system ("color 1");  selamat();  system("pause");  system("cls");  menu\_masuk();  } |

# BAB 3

## **PENUTUP**

### Kesimpulan

Dalam pembuatan program komputer diperlukan pemikiran kritis maupun memiliki daya analisa yang tinggi dalam menyelesaikan suatu permasalahan – permasalahan dalam kehidupan sehari – hari menggunakan logika system komputer, maka dari itu laporan ini dibuat merupakan salah satu implementasi Bahasa pemrograman komputer yaitu Bahasa C tentang Sistem Management Reservasi Hotel karena untuk menyelesaikan suatu permasalahan dalam membuat management tentang bagaimana cara reservasi hotel melalui system komputer.

### Saran

Dalam Laporan Algoritma dan Pemrograman yang kami buat ini yang berjudul Management Reservasi Hotel dalam menggunakan Bahasa Pemrograman C ini kami kemas dengan sedemikian rupa baik itu mulai dari flowchart, pseudocode, maupun programnya. Namun dalam laporan ini kami pasti memiliki banyak kekurangan karena tak luput kami manusia biasa pasti ada kesalahan baik dalam pemaparan isi maupun bentuk laporannya, kami mohon maaf bila ada kesalahan yang disengaja maupun tidak sengaja, kepada pembaca kami mohon tanggapan maupun saran dari pembaca agar laporan ini kami dapat memperbaikinya lebih sempurna lagi.

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