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#include <stdio.h>

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int main(){
    char cus;

    int cus_d=0, cus_h=0, cus_p=0, patient_untreated=0, patient_counter=0;

    do{
        fflush(stdin);
        printf("Type (d: dermatologist, h: heart surgeon, p: pediatrician, x: exit): ");
        scanf("%c",&cus);

        if (cus=='p'){
            cus_p++;
            patient_counter++;
            if (cus_p >5){
                printf("Patient %d untreated!\n",patient_counter);
                patient_untreated++;
            }
            else
                printf("Pediatrician %d treats patient %d\n",cus_p,patient_counter);
        }

        if (cus=='d'){
            cus_d++;
            patient_counter++;
            if (cus_d >2){
                printf("Patient %d untreated!\n",patient_counter);
                patient_untreated++;
            }
        }
    }
}
```

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        }
        else
            printf("Dermatologist %d treats patient
%d\n",cus_d,patient_counter);
    }

    if (cus=='h'){
        cus_h++;
        patient_counter++;
        if (cus_h >3){
            printf("Patient %d untreated!\n",patient_counter);
            patient_untreated++;
        }
        else
            printf("Heart surgeon %d treats patient
%d\n",cus_h,patient_counter);
    }
}while(cus!='x');

printf("%d patients treated, %d patient not treated!",patient_counter-
patient_untreated,patient_untreated);

return 0;
}

```