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# Data structures Lab - 1

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## WAP

A university wants to automate their admission process. Students are admitted based on the marks scored in a qualifying exam.

A student is identified by student id, age & marks in qualifying exam.

~~A student~~ Data are valid, if:

- Age is greater than 20.
- Marks is between 0 and 100 (both inclusive).
- A student qualifies for admission, if
- Age and marks are valid
- Marks is 65 or more.

```
#include <stdio.h>  
int main()
```

```
{
```

```
    int n;
```

```
    printf("Enter number of students who are seeking  
           admissions\n");
```

```
    scanf("%d", &n);
```

```
    struct student
```

```
{
```

```
    int id;
```

```
    int marks;
```

```
    int age;
```

```
} stud[n];
```

```

int i;
for(i=0; i<n; i++)
{
    printf("student %d details\n", i+1);
    printf("enter id\n");
    scanf("%d", &stud[i].id);
    printf("enter marks\n");
    scanf("%d", &stud[i].marks);
    printf("enter age\n");
    scanf("%d", &stud[i].age);
}
printf("these are the eligible students who are seeking admission\n");
for(i=0; i<n; i++)
{
    if((stud[i].age > 20) && (stud[i].marks > 60))
    {
        printf("student %d\n", i+1);
        printf("id - %d\n", stud[i].id);
        printf("marks - %d\n", stud[i].marks);
        printf("age - %d\n", stud[i].age);
    }
}
}
}

```

## output

Enter numbers of students who are seeking admission

3

Student 1 details

enter id

156

enter marks

89

enter age

21

Student 2 details

enter id

176

enter marks

90

enter age

22

Student 3 details

enter id

145

enter marks

64

enter age

19

These are the eligible students who are seeking admission.

Student 1

id - 156

marks - 89

age - 21

Student 2

id - 176

marks - 90

age - 22