

addRecord

addRecord (pointer to record start, array uname, array uaddr, int uyob, array utelno)

Define a **<pointer to record>** called **<current>**
copy **<start>** into the **<current>**

if (**<current>** is not **NULL**):

while (the **<next field of the record whose address is in current>** is not **NULL**):
copy **<next field of the record whose address is in current>** into the **<current>**

Allocate space for a new record and store its address in the **<next field of the record whose address is in current>**
copy **<next field of the record whose address is in current>** into the **<current>**

else:
Allocate space for a new record and store its address in the **<start>**
copy **<start>** into the **<current>**

Copy **<NULL>** into the **<next field of the record whose address is in current>**

Copy the **<uname array>** into the **<name field of the record whose address is in current>**

Copy the **<uaddr array>** into the **<addresss field of the record whose address is in current>**

Copy the **<uyob int>** into the **<yearofbirth field of the record whose address is in current>**

Copy the **<utelno array>** into the **<telno field of the record whose address is in current>**

Homework #6 ... Ehsan Kourkchi

```
int addRecord (struct record *start,char uname[],char uaddr[],int uyob, char utelno[]) {

    struct record *current;
    current = start;
    int i;

    if (current != NULL)
    {

        while (current->next != NULL)
        {
            current = current->next;
        }

        current->next = (struct record *)malloc(sizeof(struct record));
        current = current->next;

    }
    else
    {

        start = (struct record *)malloc(sizeof(struct record));
        current = start;

    }

    current->next = NULL;

    for (i=0; i<25; i++) current->name[i] = uname[i];

    for (i=0; i<80; i++) current->address[i] = uaddr[i];

    current->yearofbirth = uyob;

    for (i=0; i<15; i++) current->telno[i] = utelno[i];

}
```

deleteRecord

deleteRecord (pointer to record start, array uname)

Define a **<pointer to record>** called **<current>**

Define a **<pointer to record>** called **<temp>**

copy **<start>** into the **<current>**

while (**<current>** is not **NULL**):

if (**<name field of the record whose address is in current>** is **<uname array>**):

if (<current> is <start>):

copy **<next field of the record whose address is in current>** into the **<start>**

Delete the record whose address is in <current>

copy <start> into the <current>

else:

copy **<next field of the record whose address is in current>** into the **<next field of the record whose address is in temp>**

Delete the record whose address is in **<current>**

copy <next field of the record whose address is in temp> into the <current>

else:

copy <current> into the <temp>

copy **<next field of the record whose address is in current>** into the **<current>**

Homework #6 ...
Ehsan Kourkchi

```
int deleteRecord(struct record *start,char uname[]) {
```

```
    struct record *current;
```

```
    struct record *temp;
```

```
    current = start;
```

```
    int i;
```

```
    while(current != NULL) {
```

```
        if (strcmp(current->name,uname) == 0)
```

```
        {
```

```
            if (current = start)
```

```
            {
```

```
                start = current-> next;
```

```
                free(current);
```

```
                current = start;
```

```
            }
```

```
            else
```

```
            {
```

```
                temp->next = current->next;
```

```
                free(current);
```

```
                current = temp->next;
```

```
            }
```

```
        }
```

```
    } else
```

```
    {
```

```
        temp = current;
```

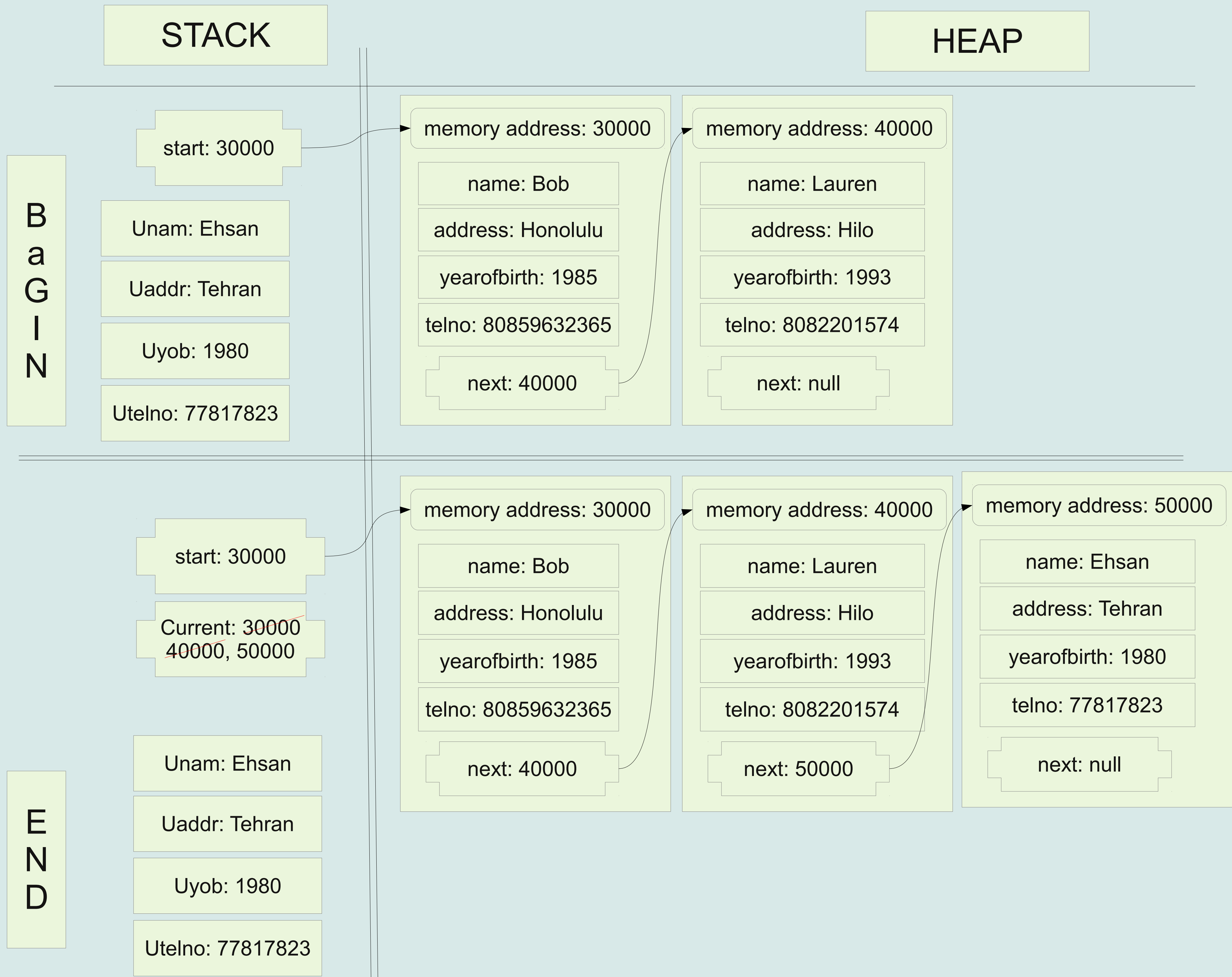
```
        current = current->next;
```

```
    }
```

```
}
```

```
}
```

Add record to list which has two records



Delete name matches first and second record in a list with 4 records

