Linear Probing

```
#include <stdio.h>
#define SIZE 10
int hash(int key)
{
    return key%SIZE;
}
int probe(int H[],int key)
    int index=hash(key);
    int i=0;
    while(H[(index+i)%SIZE]!=0)
        i++;
    return (index+i)%SIZE;
}
void Insert(int H[],int key)
{
    int index=hash(key);
    if(H[index]!=0)
        index=probe(H,key);
    H[index]=key;
}
int Search(int H[],int key)
{
    int index=hash(key);
    int i=0;
    while(H[(index+i)%SIZE]!=key)
        i++;
    return (index+i)%SIZE;
}
int main()
{
    int HT[10] = \{0\};
    Insert(HT, 12);
```

```
Insert(HT,25);
Insert(HT,35);
Insert(HT,26);

printf("\nKey found at %d\n",Search(HT,35));
return 0;
}
```