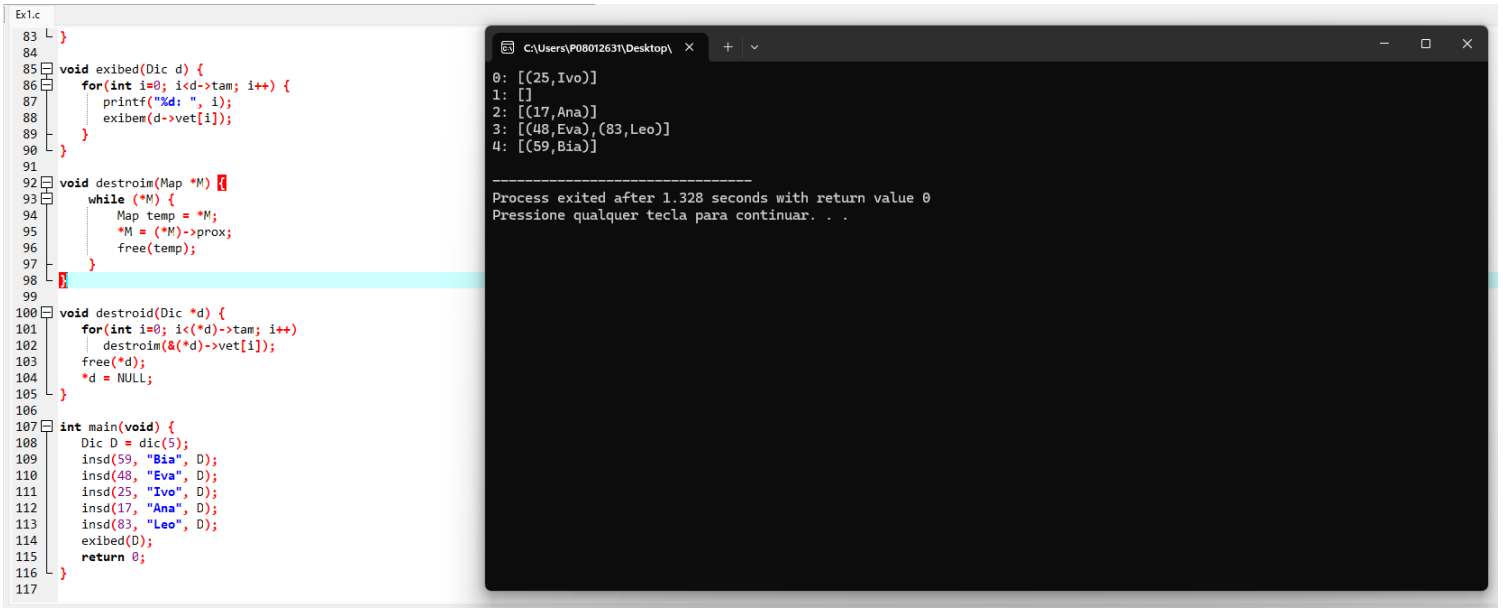
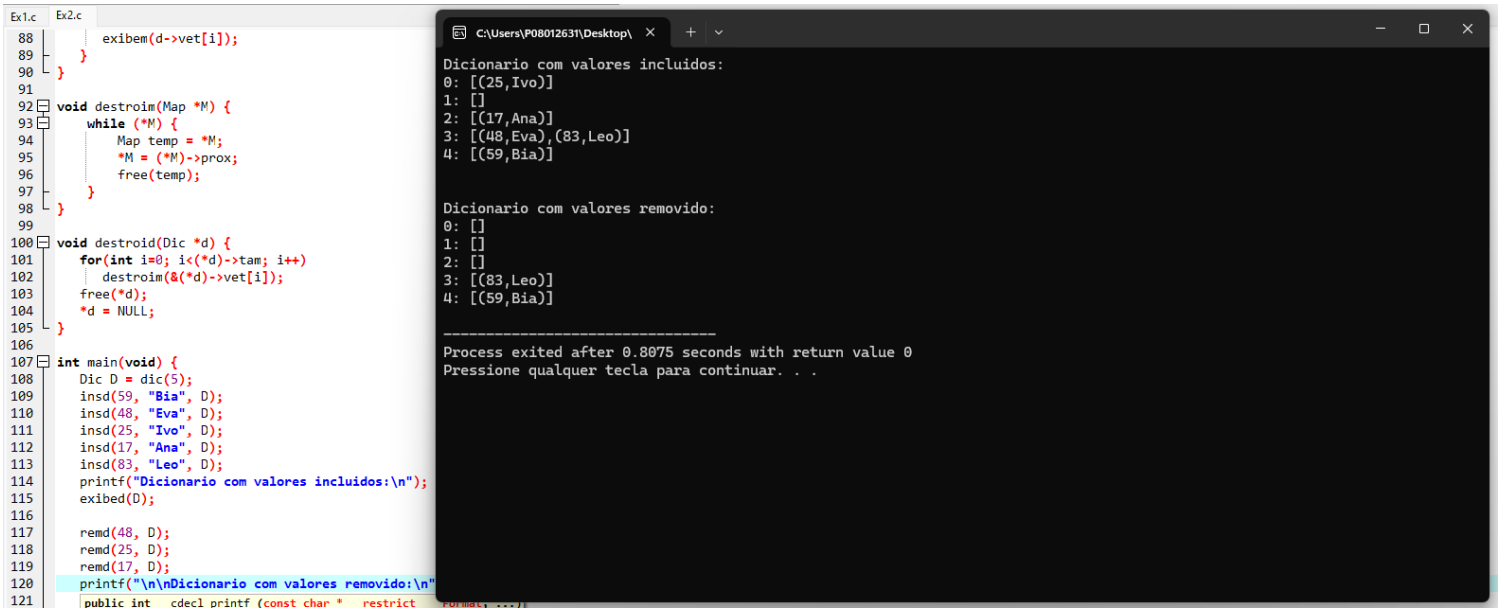
Exercício 1



```c
}

void exibed(Dic d) {
    for(int i=0; i<d->tam; i++) {
        printf("%d: ", i);
        exibem(d->vet[i]);
    }
}

void destroim(Map *M) {
    while (*M) {
        Map temp = *M;
        *M = (*M)->prox;
        free(temp);
    }
}

void destroid(Dic *d) {
    for(int i=0; i<(*d)->tam; i++)
        destroim(&(*d)->vet[i]);
    free(*d);
    *d = NULL;
}

int main(void) {
    Dic D = dic(5);
    insd(59, "Bia", D);
    insd(48, "Eva", D);
    insd(25, "Ivo", D);
    insd(17, "Ana", D);
    insd(83, "Leo", D);
    exibed(D);
    return 0;
}
```

```
C:\Users\P08012631\Desktop\
0: [(25,Ivo)]
1: []
2: [(17,Ana)]
3: [(48,Eva),(83,Leo)]
4: [(59,Bia)]

--------------------------------
Process exited after 1.328 seconds with return value 0
Pressione qualquer tecla para continuar. . .
```

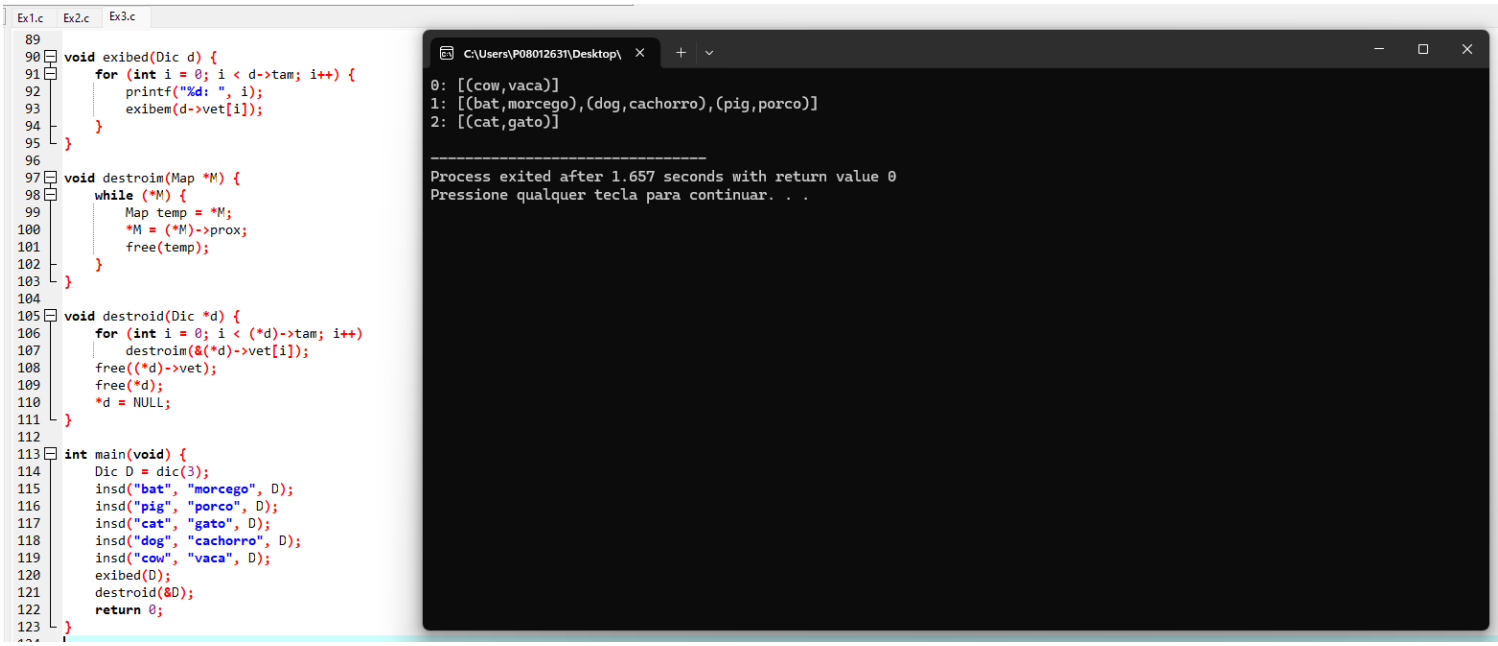
Exercício 2



```c
        exibem(d->vet[i]);
    }
}

void destroim(Map *M) {
    while (*M) {
        Map temp = *M;
        *M = (*M)->prox;
        free(temp);
    }
}

void destroid(Dic *d) {
    for(int i=0; i<(*d)->tam; i++)
        destroim(&(*d)->vet[i]);
    free(*d);
    *d = NULL;
}

int main(void) {
    Dic D = dic(5);
    insd(59, "Bia", D);
    insd(48, "Eva", D);
    insd(25, "Ivo", D);
    insd(17, "Ana", D);
    insd(83, "Leo", D);
    printf("Dicionario com valores incluidos:\n");
    exibed(D);

    remd(48, D);
    remd(25, D);
    remd(17, D);
    printf("\n\nDicionario com valores removido:\n"
```

```
C:\Users\P08012631\Desktop\
Dicionario com valores incluidos:
0: [(25,Ivo)]
1: []
2: [(17,Ana)]
3: [(48,Eva),(83,Leo)]
4: [(59,Bia)]


Dicionario com valores removido:
0: []
1: []
2: []
3: [(83,Leo)]
4: [(59,Bia)]

--------------------------------
Process exited after 0.8075 seconds with return value 0
Pressione qualquer tecla para continuar. . .
```

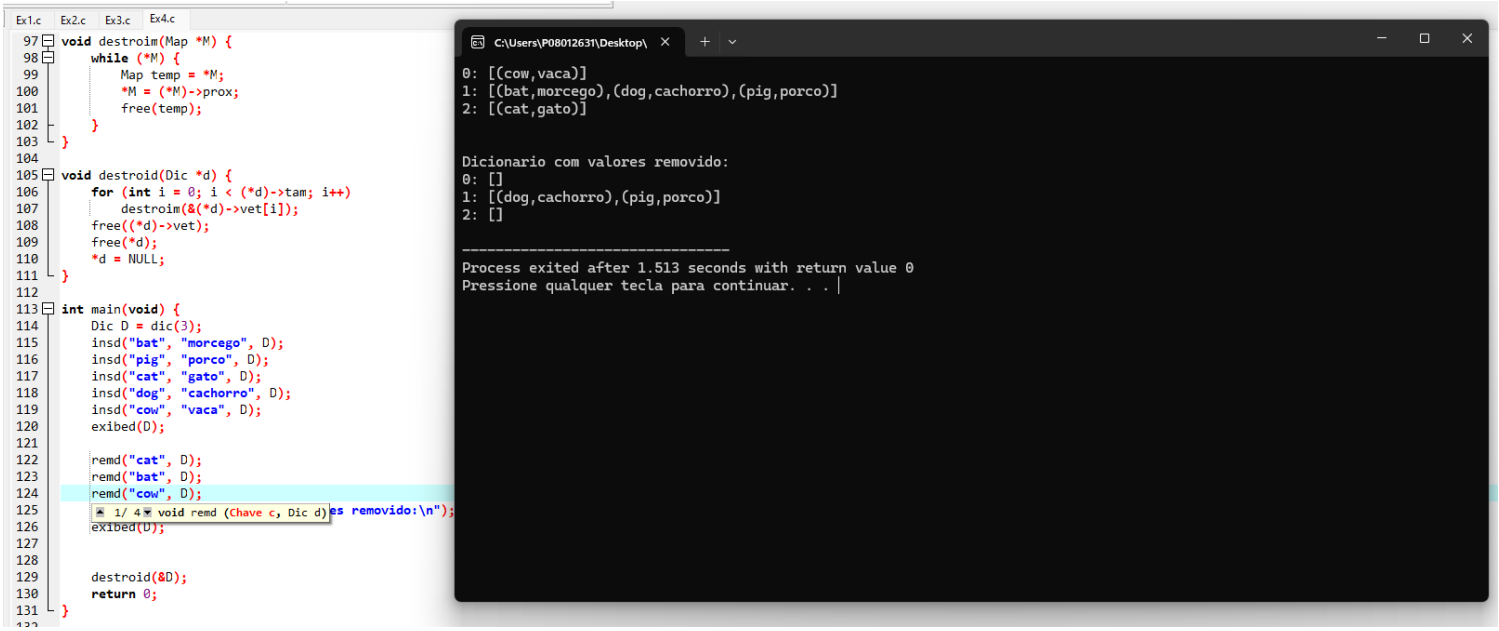
Exercício 3



```c
void exibed(Dic d) {
    for (int i = 0; i < d->tam; i++) {
        printf("%d: ", i);
        exibem(d->vet[i]);
    }
}

void destroim(Map *M) {
    while (*M) {
        Map temp = *M;
        *M = (*M)->prox;
        free(temp);
    }
}

void destroid(Dic *d) {
    for (int i = 0; i < (*d)->tam; i++)
        destroim(&(*d)->vet[i]);
    free((*d)->vet);
    free(*d);
    *d = NULL;
}

int main(void) {
    Dic D = dic(3);
    insd("bat", "morcego", D);
    insd("pig", "porco", D);
    insd("cat", "gato", D);
    insd("dog", "cachorro", D);
    insd("cow", "vaca", D);
    exibed(D);
    destroid(&D);
    return 0;
}
```

```
C:\Users\P08012631\Desktop\
0: [(cow,vaca)]
1: [(bat,morcego),(dog,cachorro),(pig,porco)]
2: [(cat,gato)]

--------------------------------
Process exited after 1.657 seconds with return value 0
Pressione qualquer tecla para continuar. . .
```

Exercício 4



```c
void destroim(Map *M) {
    while (*M) {
        Map temp = *M;
        *M = (*M)->prox;
        free(temp);
    }
}

void destroid(Dic *d) {
    for (int i = 0; i < (*d)->tam; i++)
        destroim(&(*d)->vet[i]);
    free((*d)->vet);
    free(*d);
    *d = NULL;
}

int main(void) {
    Dic D = dic(3);
    insd("bat", "morcego", D);
    insd("pig", "porco", D);
    insd("cat", "gato", D);
    insd("dog", "cachorro", D);
    insd("cow", "vaca", D);
    exibed(D);

    remd("cat", D);
    remd("bat", D);
    remd("cow", D);
    exibed(D);

    destroid(&D);
    return 0;
}
```

```
C:\Users\P08012631\Desktop\
0: [(cow,vaca)]
1: [(bat,morcego),(dog,cachorro),(pig,porco)]
2: [(cat,gato)]


Dicionario com valores removido:
0: []
1: [(dog,cachorro),(pig,porco)]
2: []

--------------------------------
Process exited after 1.513 seconds with return value 0
Pressione qualquer tecla para continuar. . .
```