

LISTAS



YASMIN

ALGORITMOS E ESTRUTURAS DE DADOS

TRABALHO EXTRA

NOME

**N
E
X
T**

```
typedef struct _LISTA {  
    char *nome;  
    struct _LISTA *next;  
} LISTA;
```

NOME

**N
E
X
T**

```
typedef struct _LISTA {  
    char *nome;  
    struct _LISTA *next;  
} LISTA;
```

NOME

**N
E
X
T**

```
typedef struct _LISTA {  
    char *nome;  
    struct _LISTA *next;  
} LISTA;
```

START



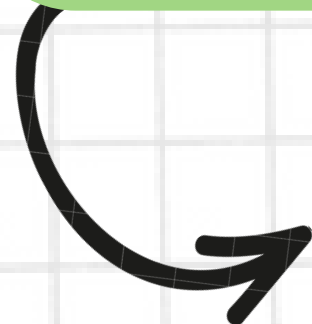
```
graph TD; START[START] --> NULL[NULL];
```

NULL

```
typedef struct _PESSOA {  
    char *nome;  
    struct _PESSOA *next;  
} PESSOA;
```

```
lista *start = NULL;
```


START



NULL

START



```
graph TD; START([START]) --> NULL[NULL];
```

The diagram consists of a green rounded rectangle labeled 'START' in the upper left. A black curved arrow originates from the bottom of this rectangle and points to the word 'NULL' in red text to its right.

NULL

NEWELEMENT("MARIA")

START



NULL



NEWELEMENT("MARIA")

```
PESSOA *NEWELEMENT(CHAR *TEXT)
```

```
{
```

```
    PESSOA *NEWP;
```

```
    NEWP = (PESSOA *) MALLOC (sizeof(PESSOA));
```

```
    NEWP -> NOME = (CHAR *)MALLOC(strlen(TEXT) + 1);
```

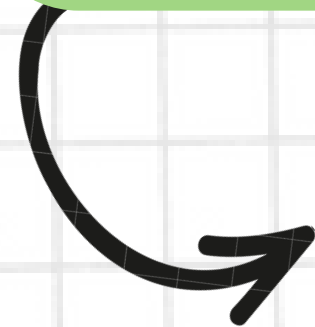
```
    strcpy(NEWP -> NOME, TEXT);
```

```
    NEWP -> NEXT = NULL;
```

```
    return NEWP;
```

```
}
```

START



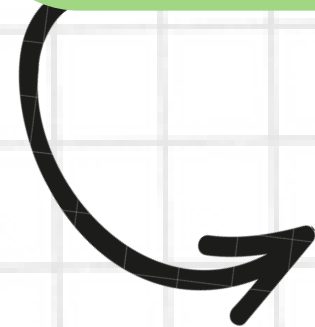
NULL



NEWELEMENT("MARIA")

```
PESSOA *NEWELEMENT(CHAR *TEXT)
{
    PESSOA *NEWP;
    NEWP = (PESSOA *) MALLOC (sizeof(PESSOA));
    NEWP -> NOME = (CHAR *)MALLOC(strlen(TEXT) + 1);
    strcpy(NEWP -> NOME, TEXT);
    NEWP -> NEXT = NULL;
    RETURN NEWP;
}
```

START



NULL



NEWELEMENT("MARIA")

```
PESSOA *NEWELEMENT(CHAR *TEXT)
```

```
{
```

```
    PESSOA *NEWP;
```

```
    NEWP = (PESSOA *) MALLOC (sizeof(PESSOA));
```

```
    NEWP -> NOME = (CHAR *)MALLOC(strlen(TEXT) + 1);
```

```
    strcpy(NEWP -> NOME, TEXT);
```

```
    NEWP -> NEXT = NULL;
```

```
    return NEWP;
```

```
}
```

START



NULL



NEWELEMENT("MARIA")

```
PESSOA *NEWELEMENT(CHAR *TEXT)
```

```
{
```

```
    PESSOA *NEWP;
```

```
    NEWP = (PESSOA *) MALLOC (sizeof(PESSOA));
```

```
    NEWP -> NOME = (CHAR *)MALLOC(strlen(TEXT) + 1);
```

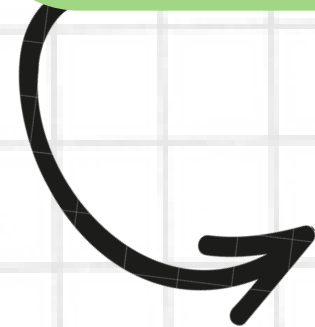
```
    strcpy(NEWP -> NOME, TEXT);
```

```
    NEWP -> NEXT = NULL;
```

```
    return NEWP;
```

```
}
```

START



NULL



NEWELEMENT("MARIA")

```
PESSOA *NEWELEMENT(CHAR *TEXT)
```

```
{
```

```
    PESSOA *NEWP;
```

```
    NEWP = (PESSOA *) MALLOC (sizeof(PESSOA));
```

```
    NEWP -> NOME = (CHAR *)MALLOC(strlen(TEXT) + 1);
```

```
    strcpy(NEWP -> NOME, TEXT);
```

```
    NEWP -> NEXT = NULL;
```

```
    return NEWP;
```

```
}
```

START



NULL



NEWELEMENT("MARIA")

```
PESSOA *NEWELEMENT(CHAR *TEXT)
{
    PESSOA *NEWP;
    NEWP = (PESSOA *) MALLOC (sizeof(PESSOA));
    NEWP -> NOME = (CHAR *)MALLOC(strlen(TEXT) + 1);
    STRCPY(NEWP -> NOME, TEXT);
    NEWP -> NEXT = NULL;
    RETURN NEWP;
}
```

START



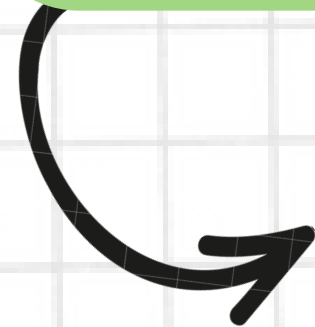
NULL



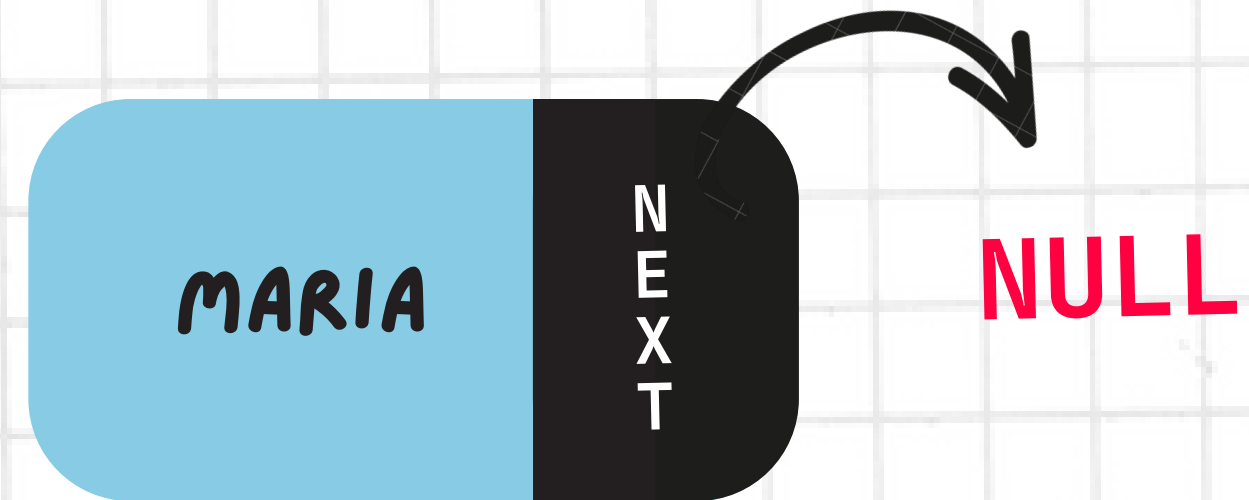
NEWELEMENT("MARIA")

```
PESSOA *NEWELEMENT(CHAR *TEXT)
{
    PESSOA *NEWP;
    NEWP = (PESSOA *) MALLOC (sizeof(PESSOA));
    NEWP -> NOME = (CHAR *)MALLOC(strlen(TEXT) + 1);
    strcpy(NEWP -> NOME, TEXT);
    NEWP -> NEXT = NULL;
    RETURN NEWP;
}
```

START



NULL



NEWELEMENT("MARIA")

```
PESSOA *NEWELEMENT(CHAR *TEXT)
```

```
{
```

```
    PESSOA *NEWP;
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```
    NEWP = (PESSOA *) MALLOC (sizeof(PESSOA));
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```
    NEWP -> NOME = (CHAR *)MALLOC(strlen(TEXT) + 1);
```

```
    strcpy(NEWP -> NOME, TEXT);
```

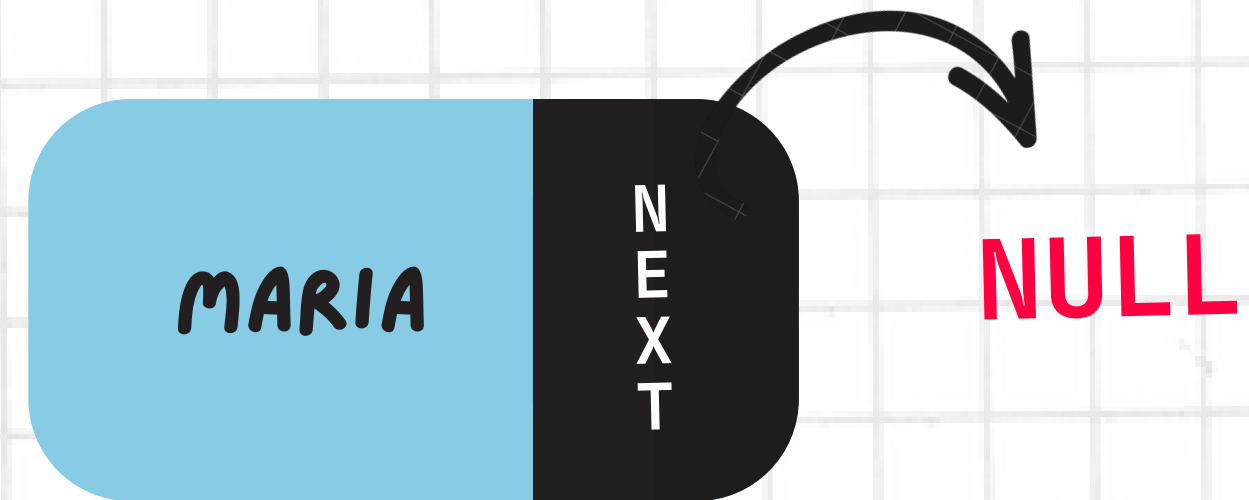
```
    NEWP -> NEXT = NULL;
```

```
    RETURN NEWP;
```

```
}
```




NULL

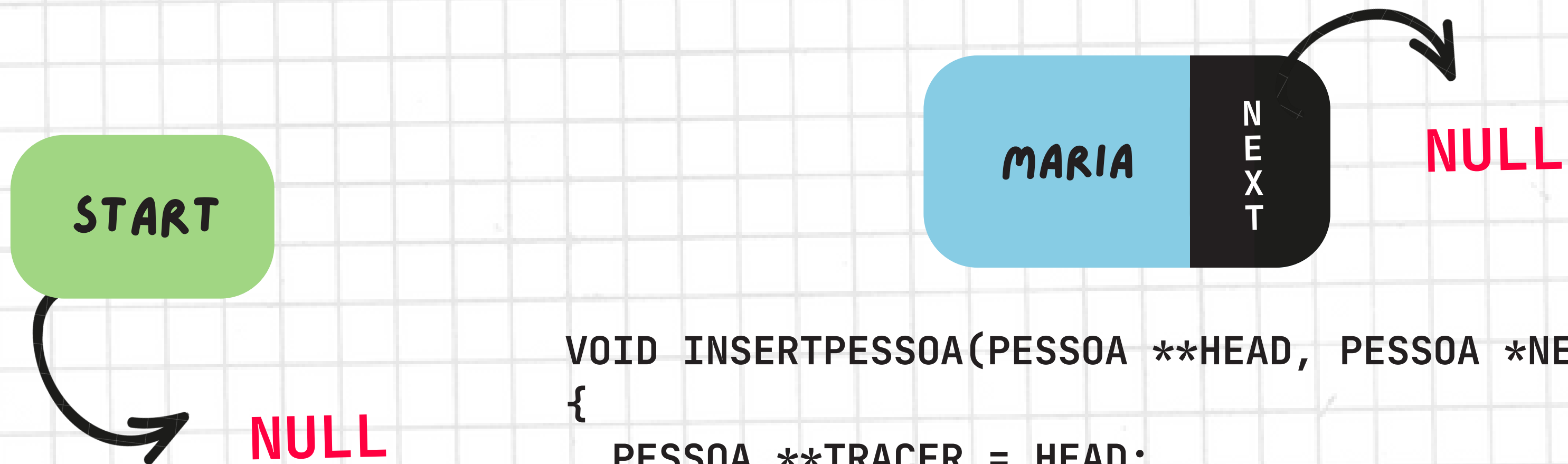


NULL

NEWELEMENT("MARIA")



```
INSERTPESSOA(&START, NEWELEMENT("MARIA"));
```



```
VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
{
    PESSOA **TRACER = HEAD;
    WHILE((*TRACER) &&
        STRCMP((*TRACER)->NOME, NEWP -> NOME) < 1)
    {
        TRACER = &(*TRACER)->NEXT;
    }
    NEWP -> NEXT = *TRACER;
    *TRACER = NEWP;
}
```

```
INSERTPESSOA(&START, NEWELEMENT("MARIA"));
```

```

THING *addfront(THING *head, THING *newp)
{
    newp -> next = head;
    return newp;
}

THING *addend (THING *head, THING *newp)
{
    THING *p2;
    if (head == NULL)
        return newp;
    for (p2 = head; p2 -> next != NULL; p2 = p2 -> next)
        ;
    p2 -> next = newp;
    return head;
}

THING *addmiddle (THING *head, THING *newp)
{
    BOOL found = FALSE;
    THING *p1, *p2;
    if (head == NULL) {
        head = addfront(head, newp);
        return head;
    }
    p2 = p1 = head ;
    while (!found) {
        if (strcmp(p1 -> item, newp -> item) >= 1) {

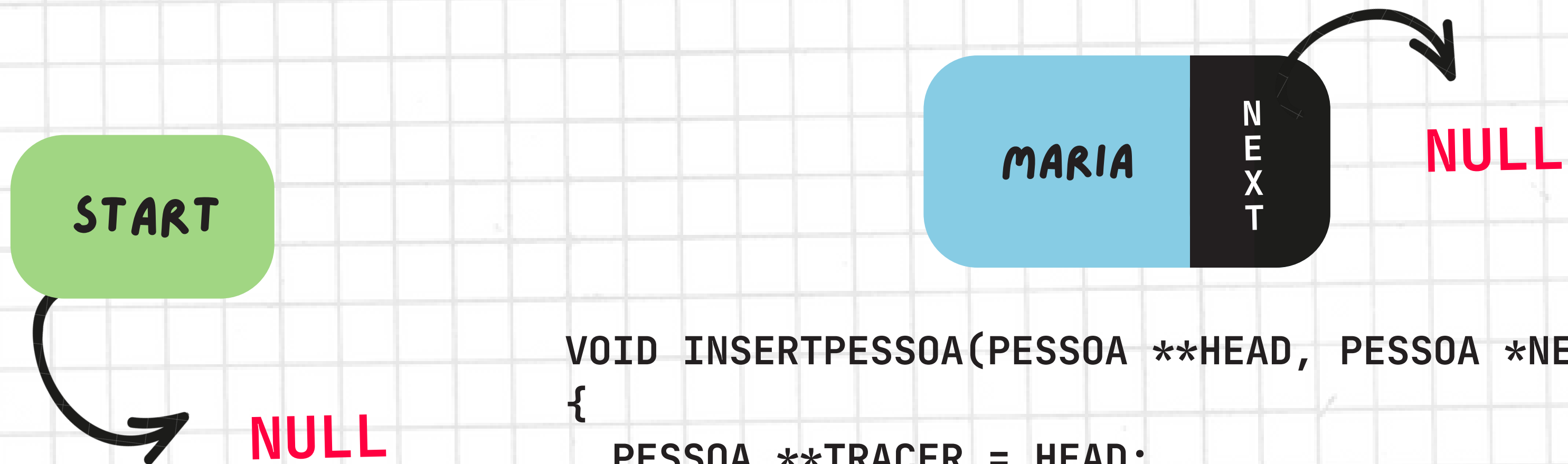
```

```

            if (p1 == head) {
                head = addfront(head, newp);
                return(head);
            }
        else {
            p2 -> next = newp;;
            newp -> next = p1;
            return head;
        }
    }

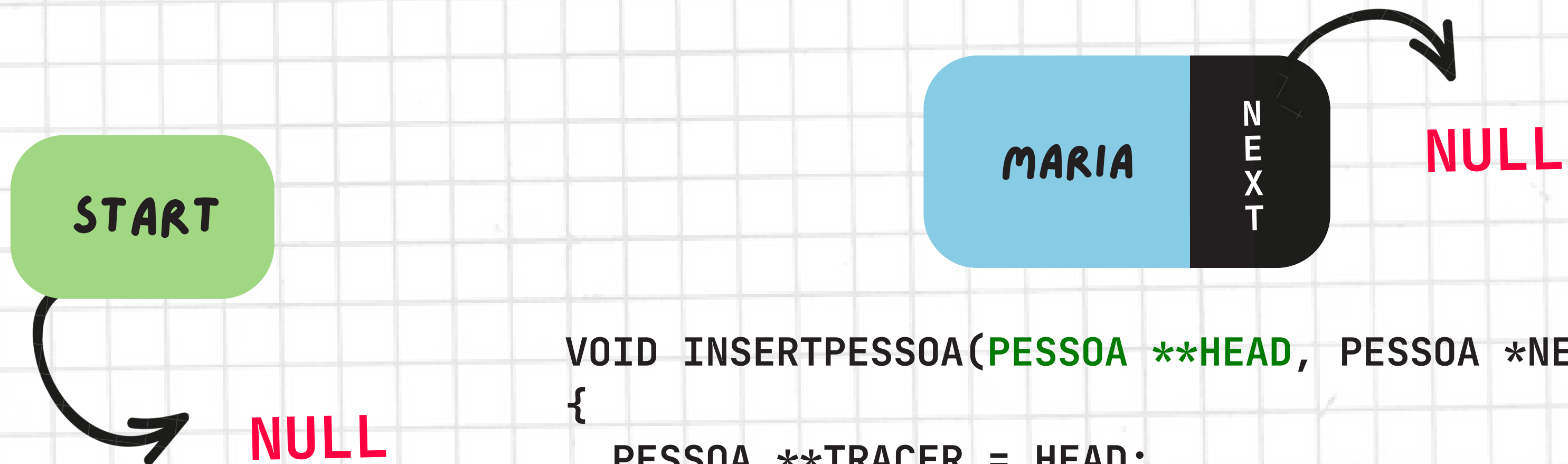
    if (p1 -> next == NULL) {
        head = addend(head, newp);
        return (head);
    }
    p2 = p1; p1 = p1 -> next;
}

```



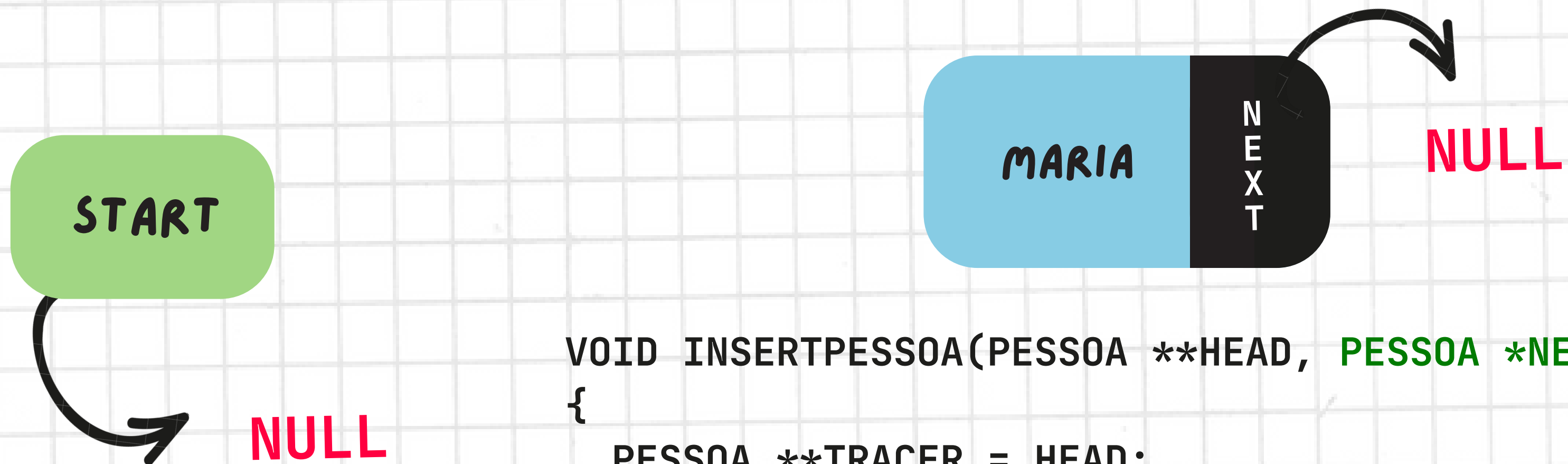
```
VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
{
    PESSOA **TRACER = HEAD;
    WHILE((*TRACER) &&
        STRCMP((*TRACER)->NOME, NEWP -> NOME) < 1)
    {
        TRACER = &(*TRACER)->NEXT;
    }
    NEWP -> NEXT = *TRACER;
    *TRACER = NEWP;
}
```

```
INSERTPESSOA(&START, NEWELEMENT("MARIA"));
```



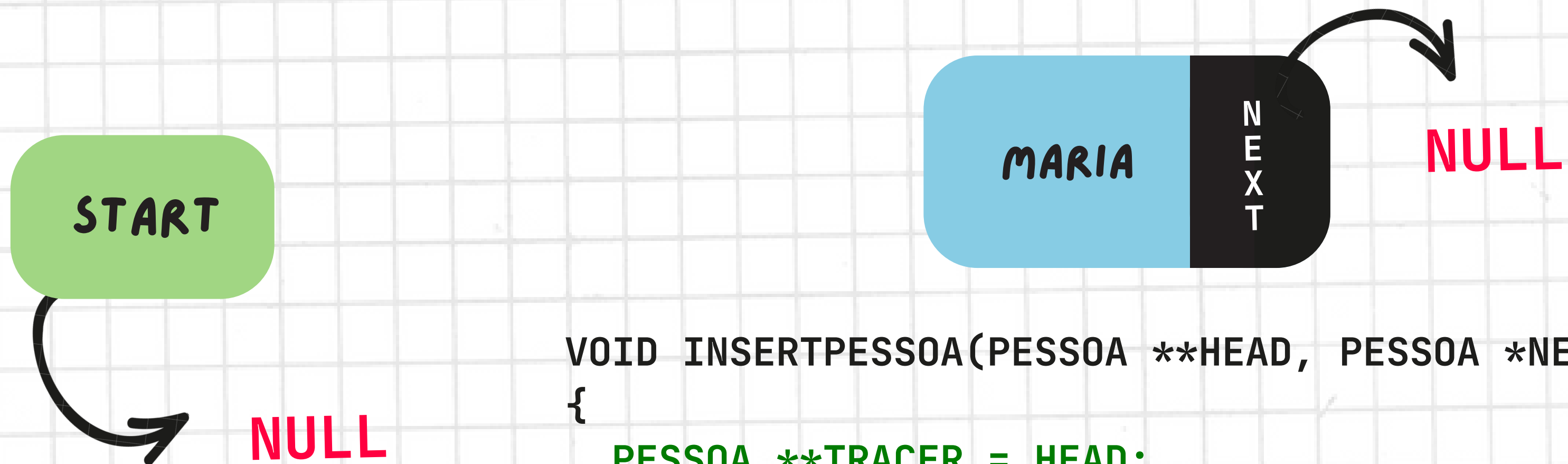
```
VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
{
    PESSOA **TRACER = HEAD;
    WHILE((*TRACER) &&
        STRCMP((*TRACER)->NOME, NEWP -> NOME) < 1)
    {
        TRACER = &(*TRACER)->NEXT;
    }
    NEWP -> NEXT = *TRACER;
    *TRACER = NEWP;
}
```

```
INSERTPESSOA(&START, NEWELEMENT("MARIA"));
```



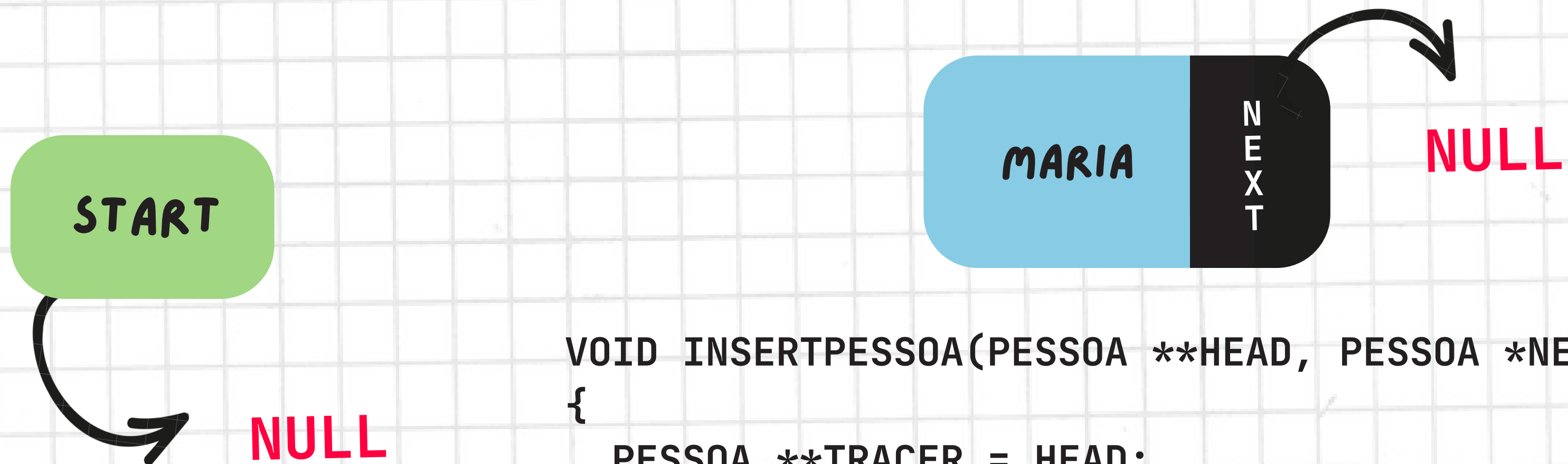
```
VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
{
    PESSOA **TRACER = HEAD;
    WHILE((*TRACER) &&
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    {
        TRACER = &(*TRACER)->NEXT;
    }
    NEWP -> NEXT = *TRACER;
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}
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```
INSERTPESSOA(&START, NEWELEMENT("MARIA"));
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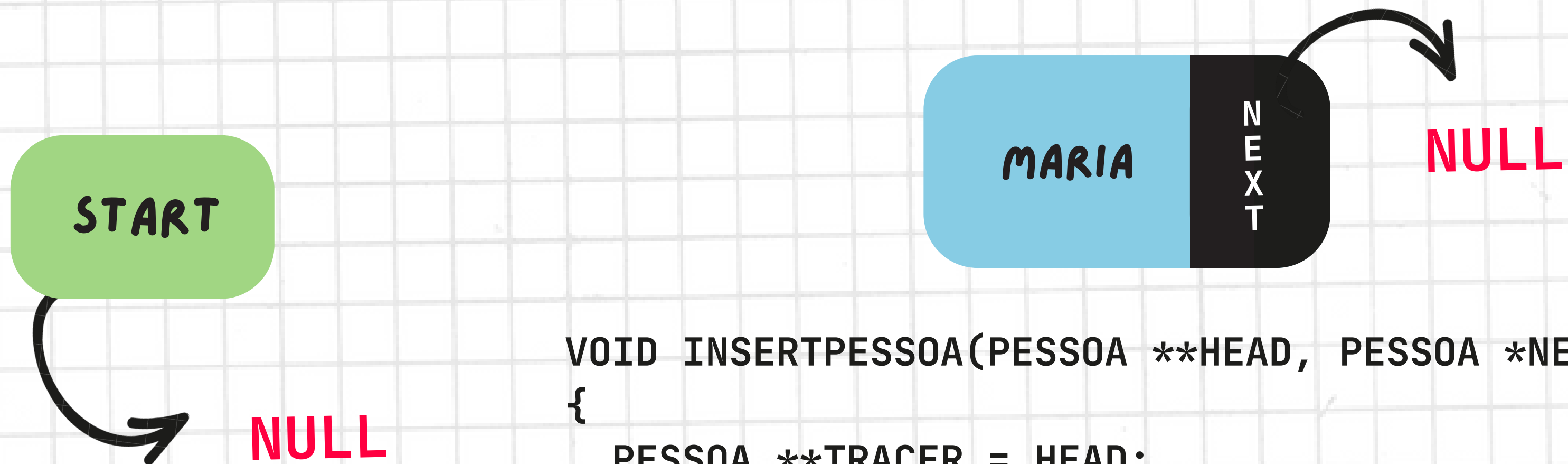
```
VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
{
    PESSOA **TRACER = HEAD;
    WHILE ((*TRACER) &&
           STRCMP((*TRACER)->NOME, NEWP -> NOME) < 1)
    {
        TRACER = &(*TRACER)->NEXT;
    }
    NEWP -> NEXT = *TRACER;
    *TRACER = NEWP;
}
```

```
INSERTPESSOA(&START, NEWELEMENT("MARIA"));
```

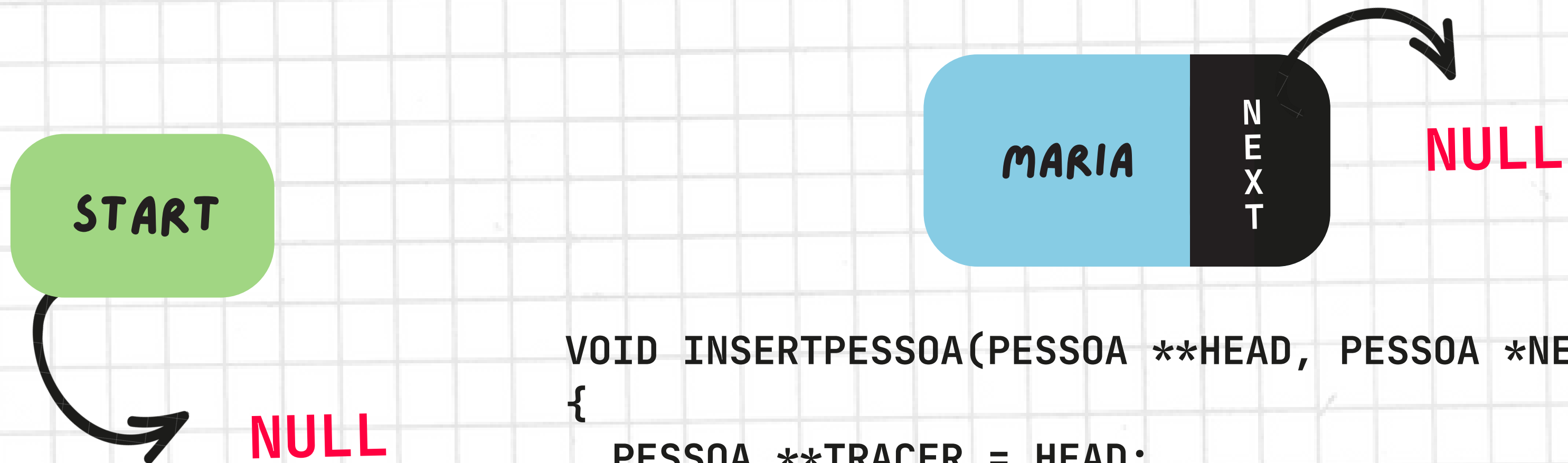
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VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
{
    PESSOA **TRACER = HEAD;
    WHILE((*TRACER) &&
        STRCMP((*TRACER)->NOME, NEWP -> NOME) < 1)
    {
        TRACER = &(*TRACER)->NEXT;
    }
    NEWP -> NEXT = *TRACER;
    *TRACER = NEWP;
}
```

```
INSERTPESSOA(&START, NEWELEMENT("MARIA"));
```



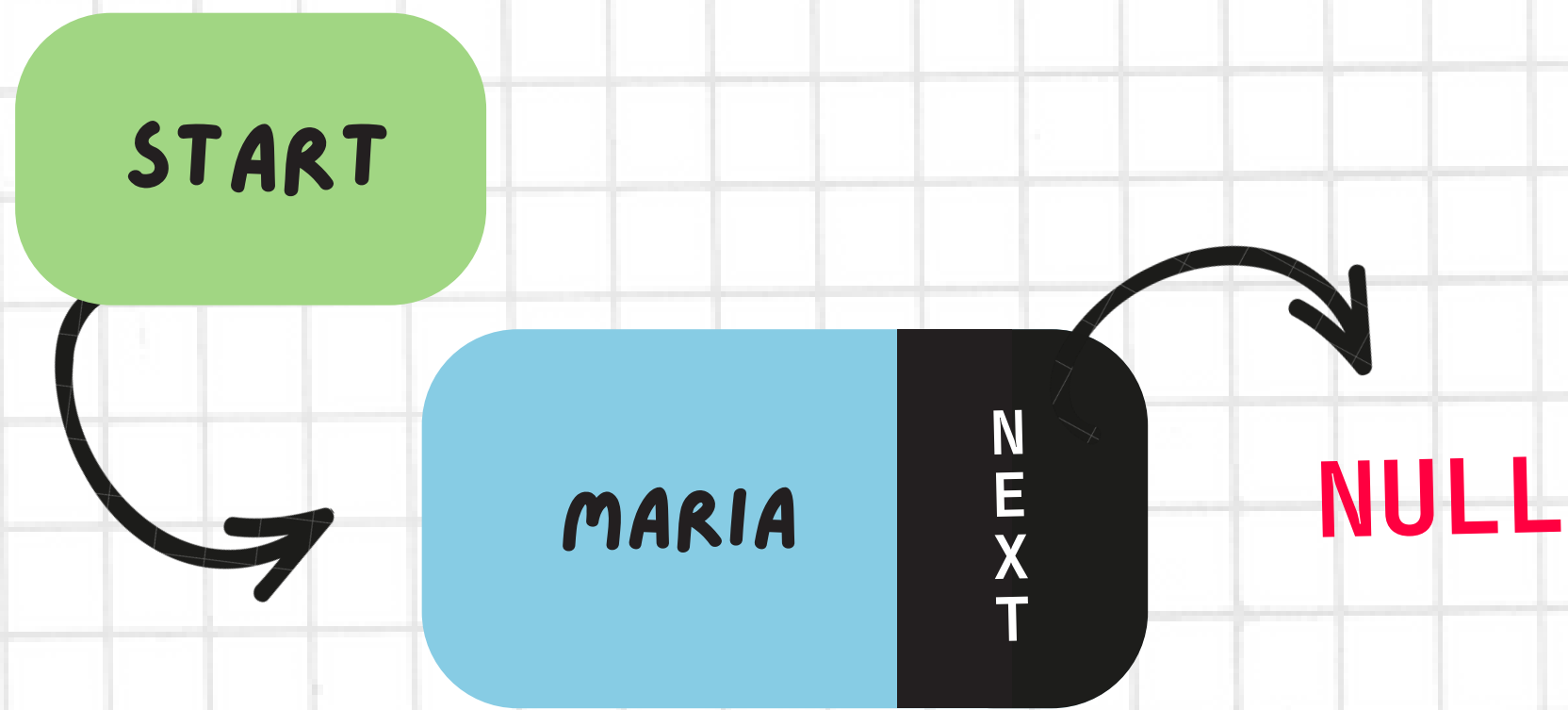
```
VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
{
    PESSOA **TRACER = HEAD;
    WHILE((*TRACER) &&
        STRCMP((*TRACER)->NOME, NEWP -> NOME) < 1)
    {
        TRACER = &(*TRACER)->NEXT;
    }
    NEWP -> NEXT = *TRACER;
    *TRACER = NEWP;
}
```

```
INSERTPESSOA(&START, NEWELEMENT("MARIA"));
```



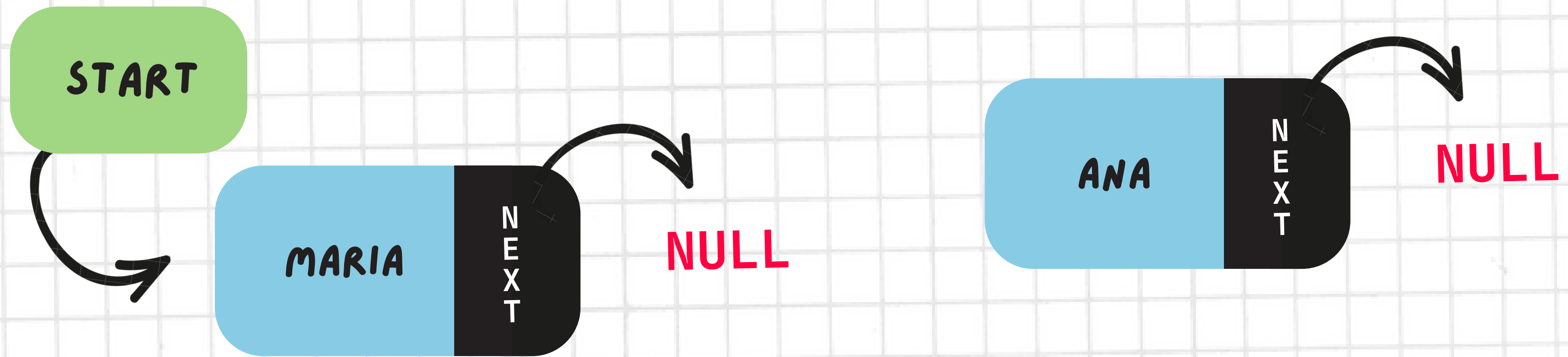
```
VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
{
    PESSOA **TRACER = HEAD;
    WHILE((*TRACER) &&
        STRCMP((*TRACER)->NOME, NEWP -> NOME) < 1)
    {
        TRACER = &(*TRACER)->NEXT;
    }
    NEWP -> NEXT = *TRACER;
    *TRACER = NEWP;
}
```

```
INSERTPESSOA(&START, NEWELEMENT("MARIA"));
```



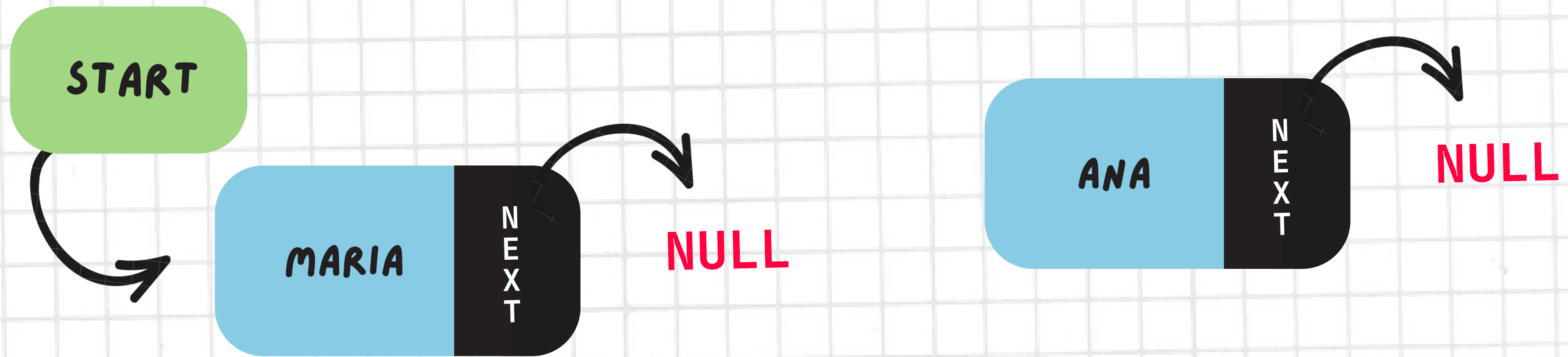
```
VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
{
    PESSOA **TRACER = HEAD;
    WHILE((*TRACER) &&
        STRCMP((*TRACER)->NOME, NEWP -> NOME) < 1)
    {
        TRACER = &(*TRACER)->NEXT;
    }
    NEWP -> NEXT = *TRACER;
    *TRACER = NEWP;
}
```

```
INSERTPESSOA(&START, NEWELEMENT("MARIA"));
```



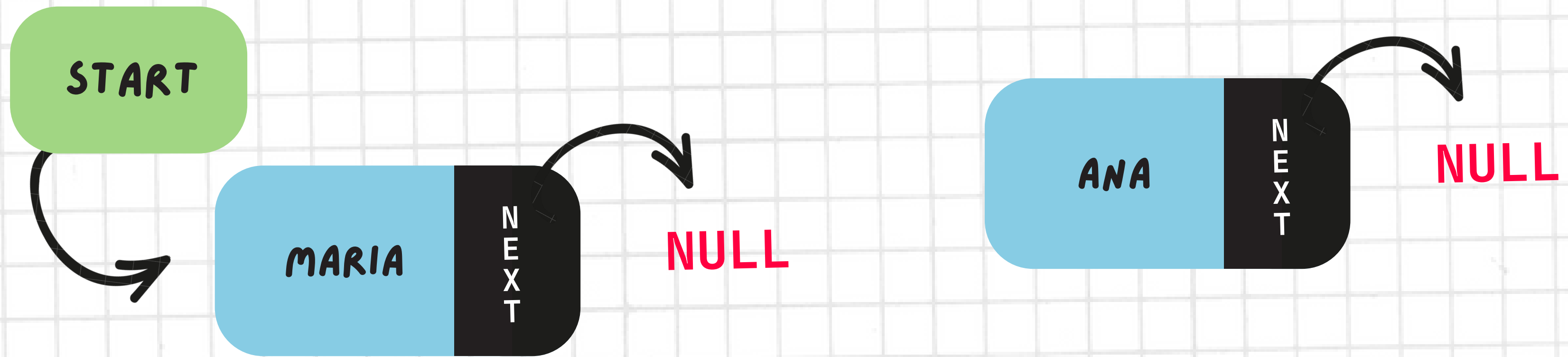
```
VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
{
    PESSOA **TRACER = HEAD;
    WHILE((*TRACER) &&
        STRCMP((*TRACER)->NOME, NEWP -> NOME) < 1)
    {
        TRACER = &(*TRACER)->NEXT;
    }
    NEWP -> NEXT = *TRACER;
    *TRACER = NEWP;
}
```

```
INSERTPESSOA(&START, NEWELEMENT("MARIA"));
```



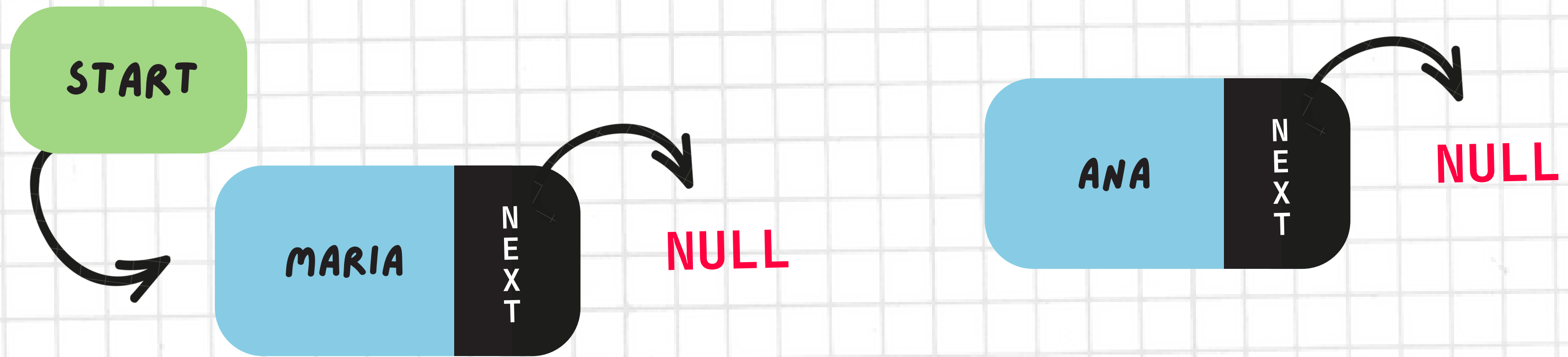
```
VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
{
    PESSOA **TRACER = HEAD;
    WHILE((*TRACER) &&
        STRCMP((*TRACER)->NOME, NEWP -> NOME) < 1)
    {
        TRACER = &(*TRACER)->NEXT;
    }
    NEWP -> NEXT = *TRACER;
    *TRACER = NEWP;
}
```

```
INSERTPESSOA(&START, NEWELEMENT("MARIA"));
```



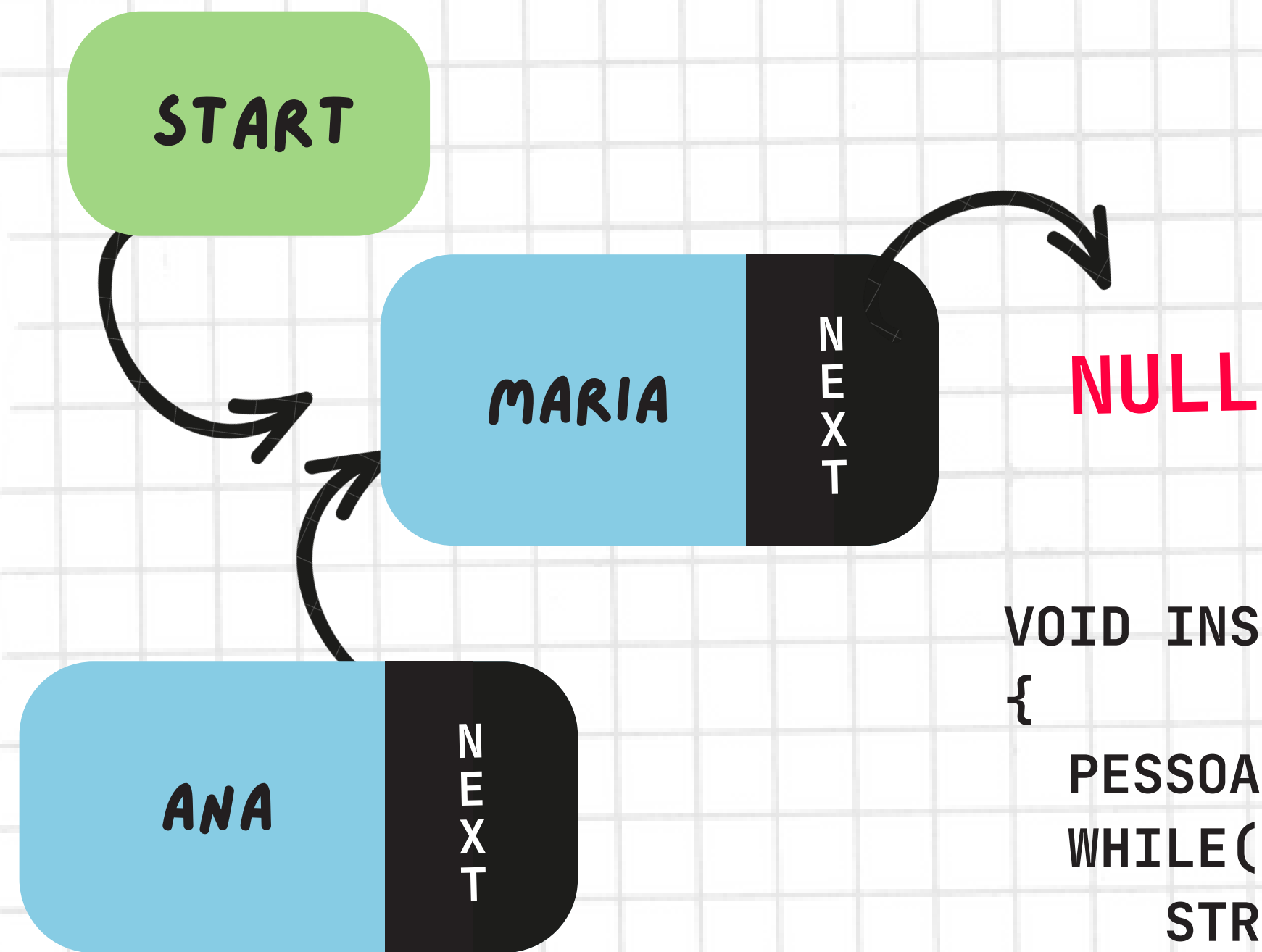
```
VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
{
    PESSOA **TRACER = HEAD;
    WHILE((*TRACER) &&
        STRCMP((*TRACER)->NOME, NEWP -> NOME) < 1)
    {
        TRACER = &(*TRACER)->NEXT;
    }
    NEWP -> NEXT = *TRACER;
    *TRACER = NEWP;
}
```

```
INSERTPESSOA(&START, NEWELEMENT("MARIA"));
```



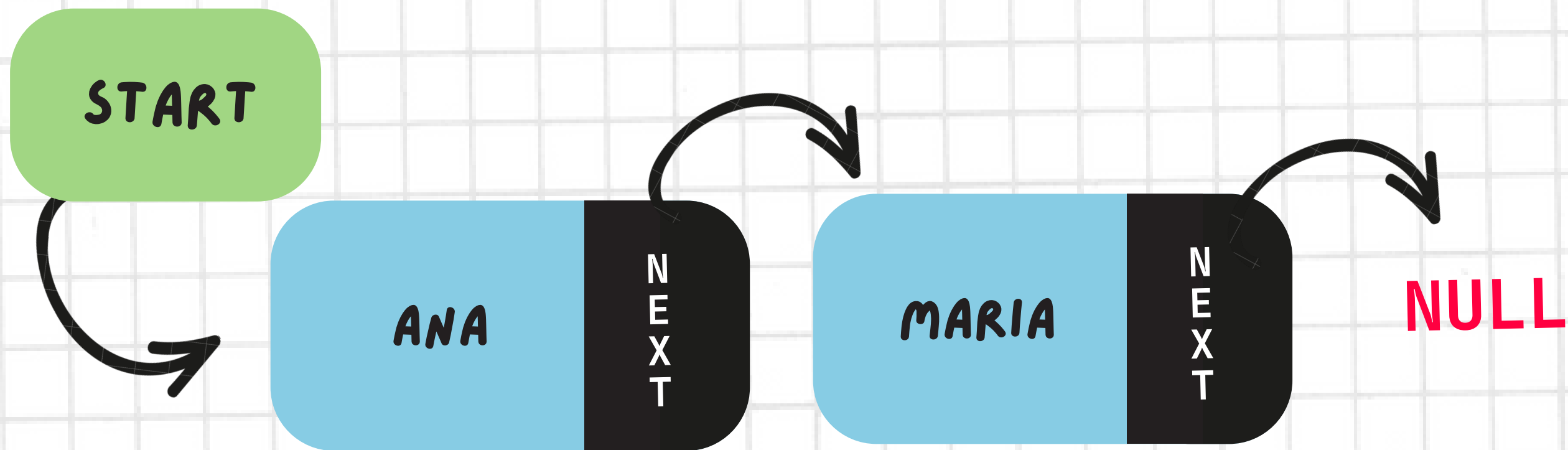
```
VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
{
    PESSOA **TRACER = HEAD;
    WHILE((*TRACER) &&
        STRCMP((*TRACER)->NOME, NEWP -> NOME) < 1)
    {
        TRACER = &(*TRACER)->NEXT;
    }
    NEWP -> NEXT = *TRACER;
    *TRACER = NEWP;
}
```

```
INSERTPESSOA(&START, NEWELEMENT("MARIA"));
```

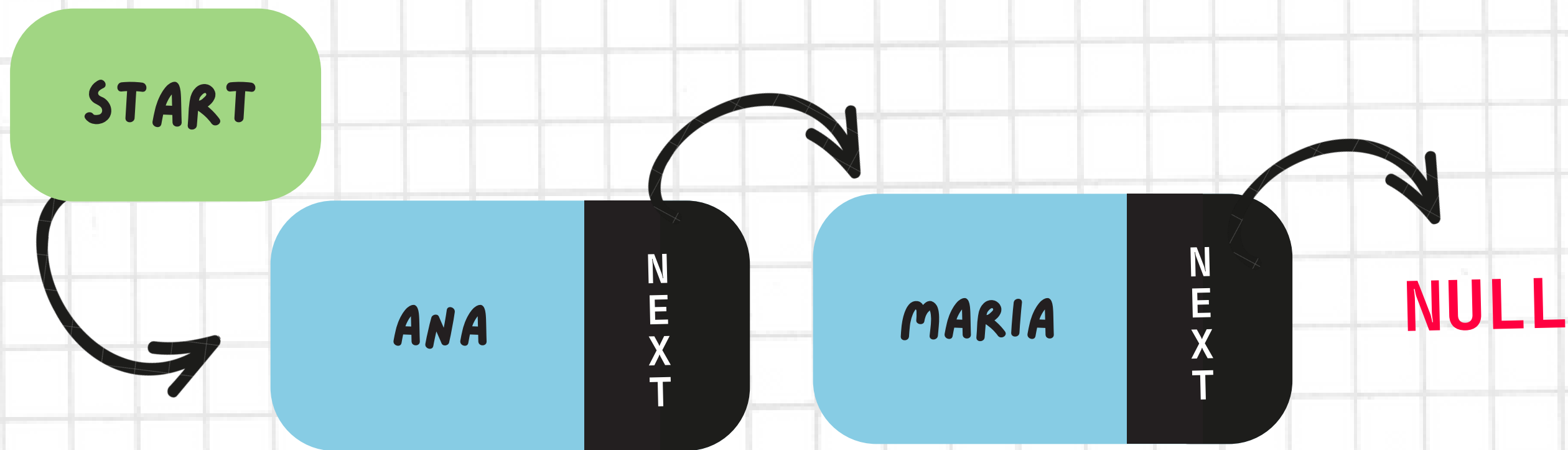



```
VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
{
    PESSOA **TRACER = HEAD;
    WHILE((*TRACER) &&
        STRCMP((*TRACER)->NOME, NEWP -> NOME) < 1)
    {
        TRACER = &(*TRACER)->NEXT;
    }
    NEWP -> NEXT = *TRACER;
    *TRACER = NEWP;
}
```

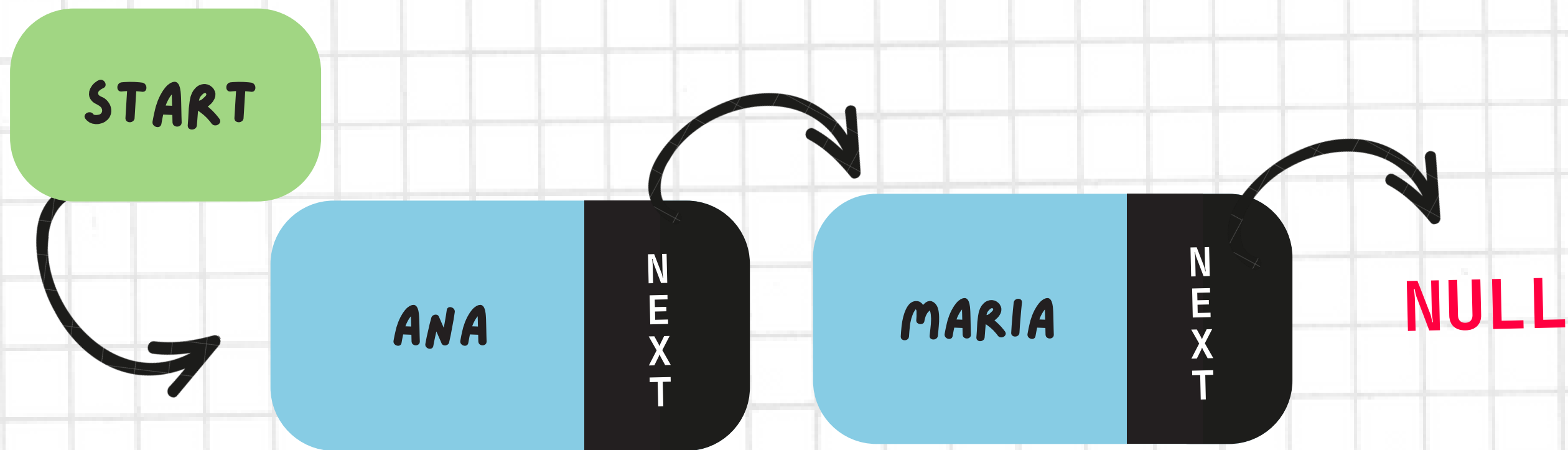
```
INSERTPESSOA(&START, NEWELEMENT("MARIA"));
```



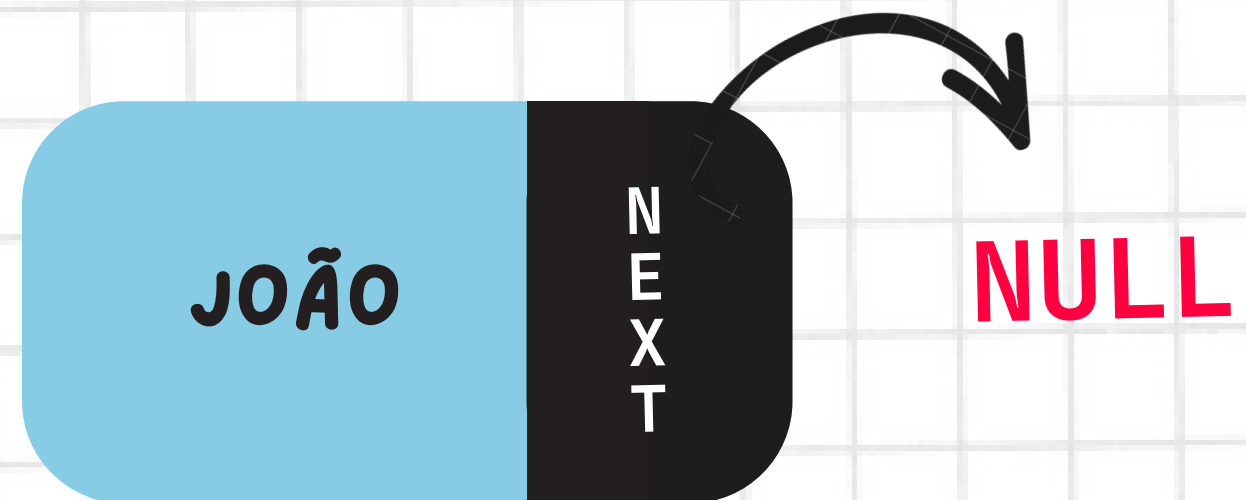
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VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
{
    PESSOA **TRACER = HEAD;
    WHILE((*TRACER) &&
        STRCMP((*TRACER)->NOME, NEWP -> NOME) < 1)
    {
        TRACER = &(*TRACER)->NEXT;
    }
    NEWP -> NEXT = *TRACER;
    *TRACER = NEWP;
}
```



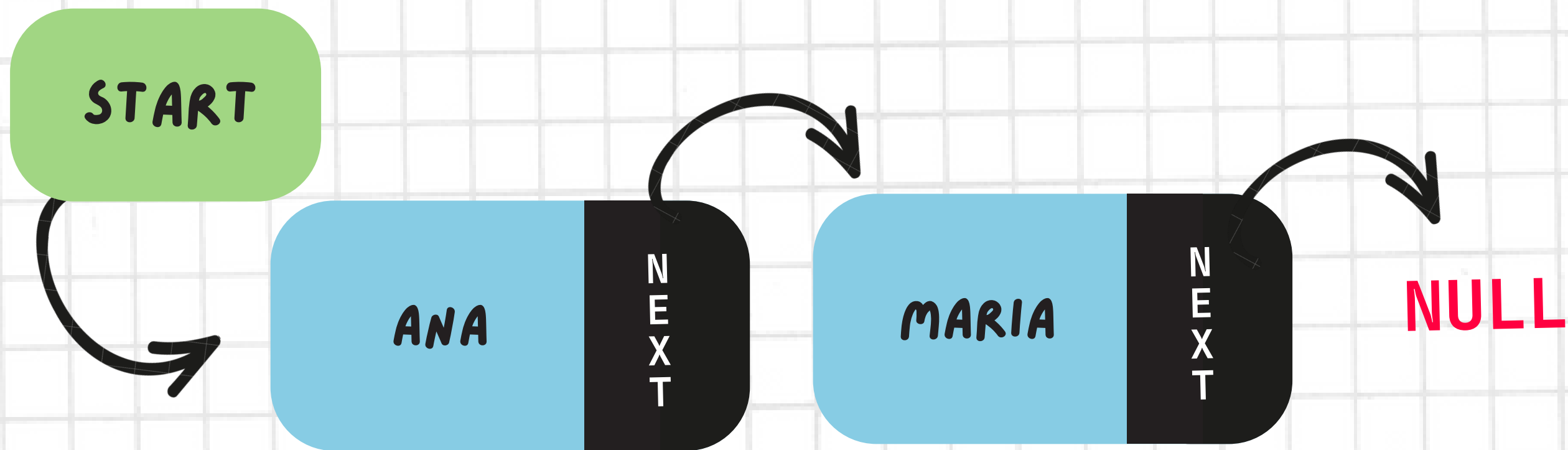
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VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
{
    PESSOA **TRACER = HEAD;
    WHILE((*TRACER) &&
        STRCMP((*TRACER)->NOME, NEWP -> NOME) < 1)
    {
        TRACER = &(*TRACER)->NEXT;
    }
    NEWP -> NEXT = *TRACER;
    *TRACER = NEWP;
}
```



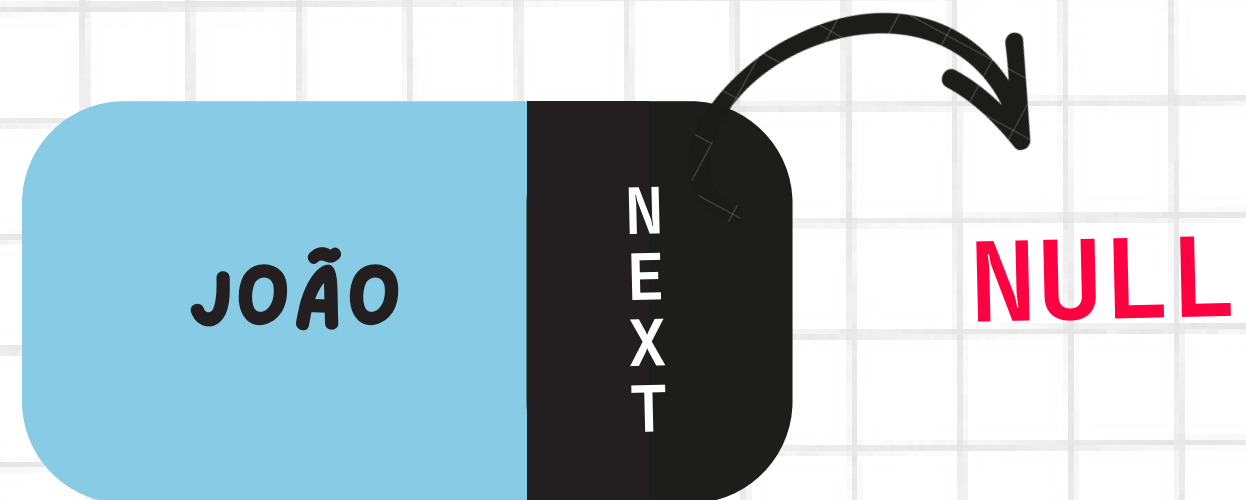
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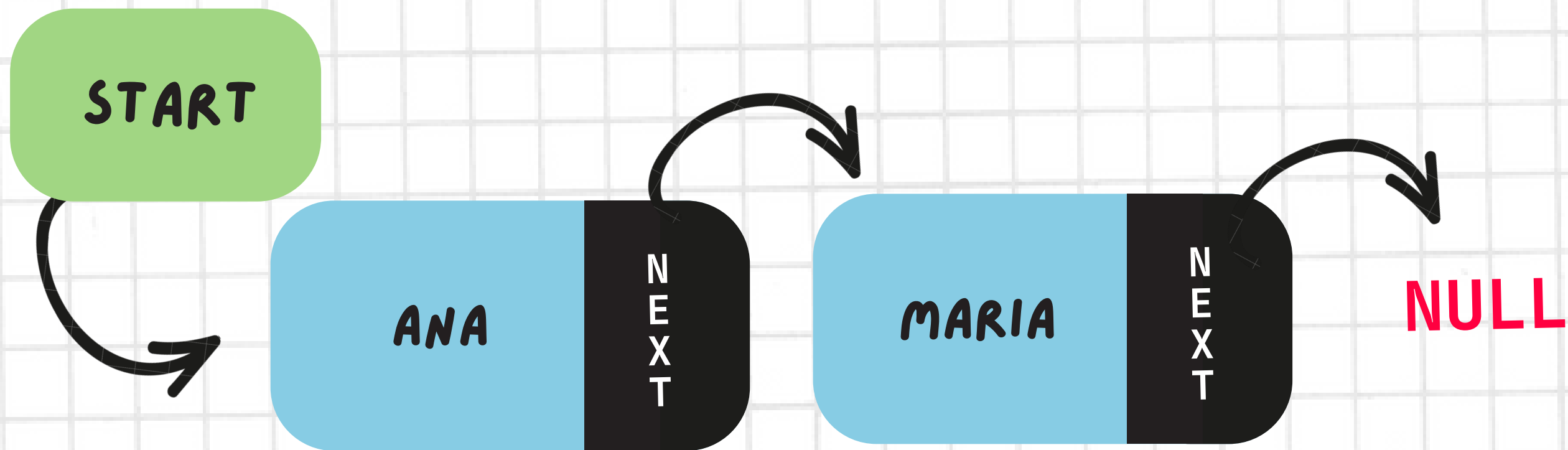
```
INSERTPESSOA(&START, NEWELEMENT("JOÃO"));
```



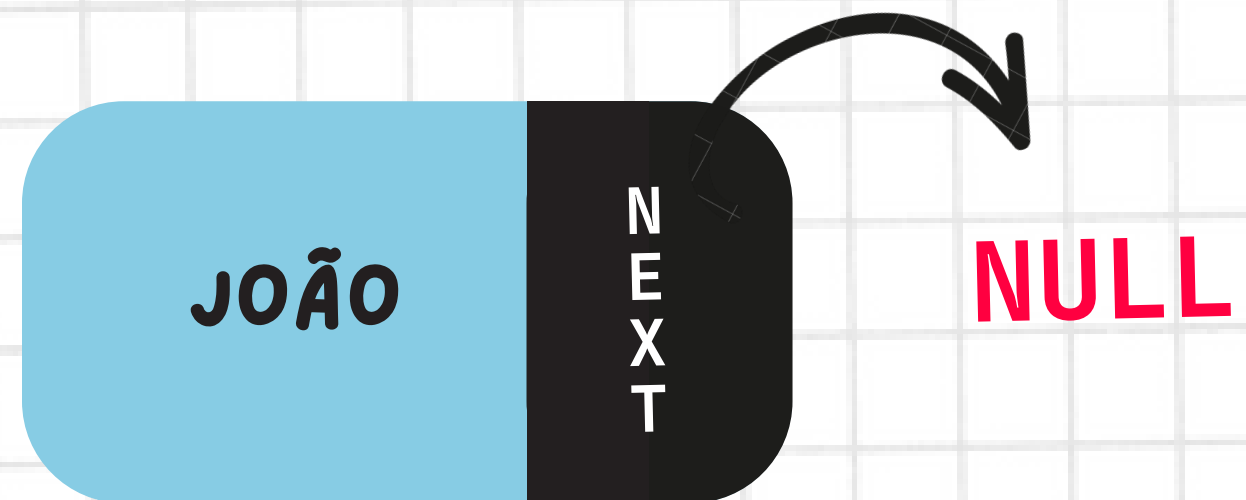
```
VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
{
    PESSOA **TRACER = HEAD;
    WHILE ((*TRACER) &&
        STRCMP((*TRACER)->NOME, NEWP -> NOME) < 1)
    {
        TRACER = &(*TRACER)->NEXT;
    }
    NEWP -> NEXT = *TRACER;
    *TRACER = NEWP;
}
```



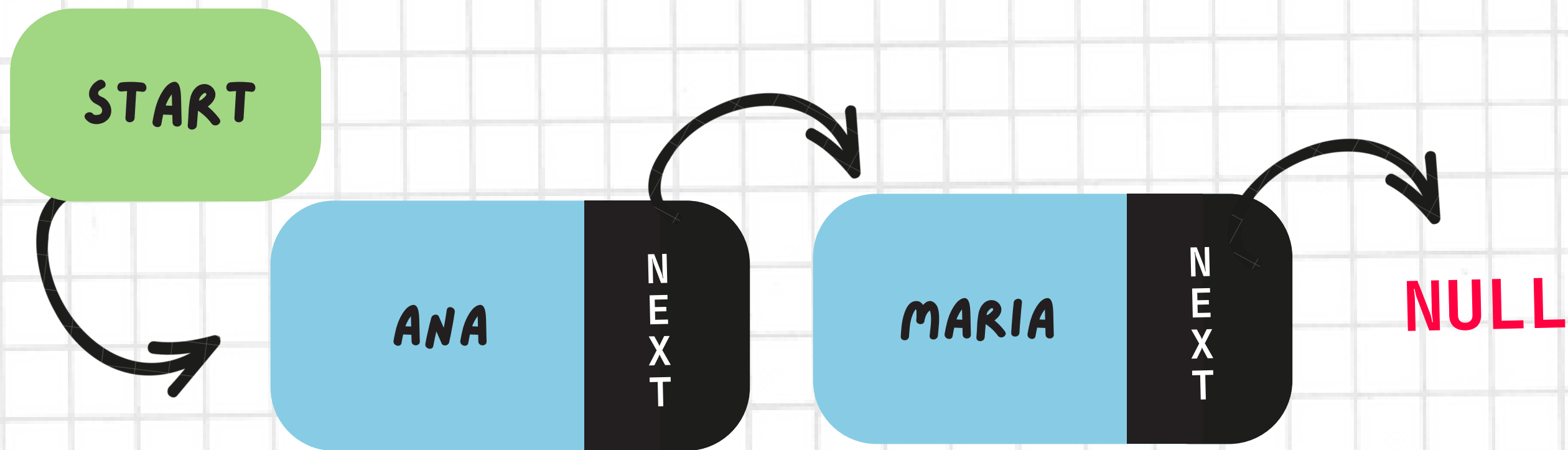
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INSERTPESSOA(&START, NEWELEMENT("JOÃO"));
```



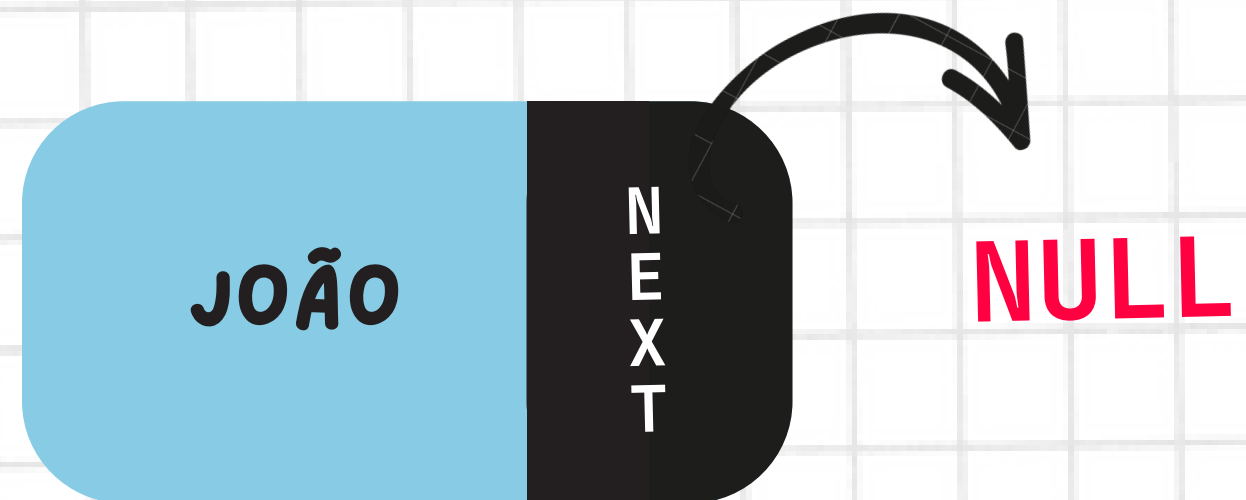
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VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
{
    PESSOA **TRACER = HEAD;
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        TRACER = &(*TRACER)->NEXT;
    }
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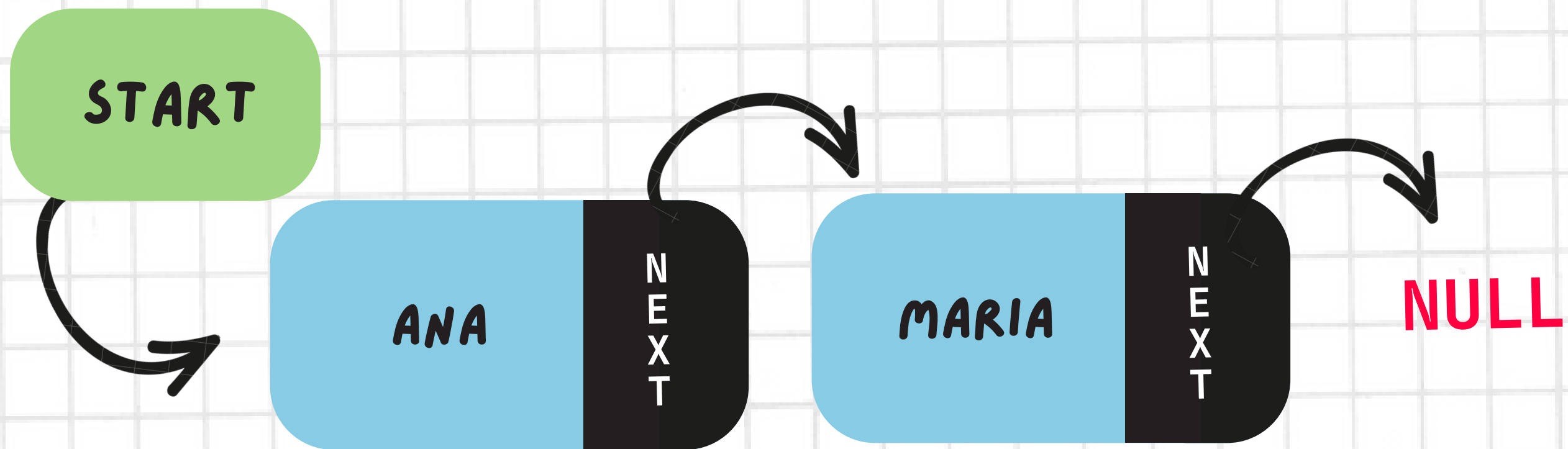
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INSERTPESSOA(&START, NEWELEMENT("JOÃO"));
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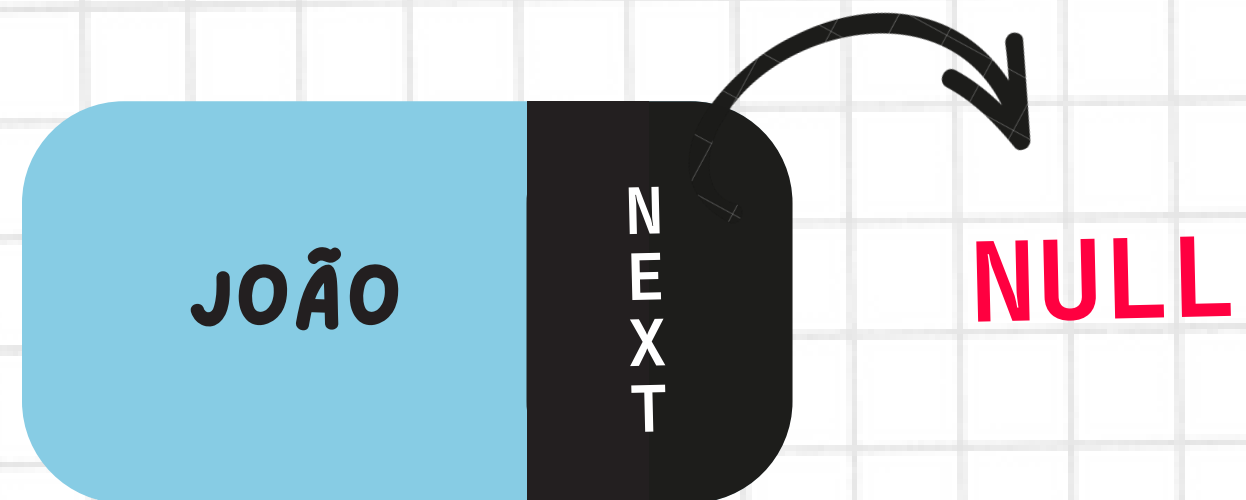
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VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
{
    PESSOA **TRACER = HEAD;
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    {
        TRACER = &(*TRACER)->NEXT;
    }
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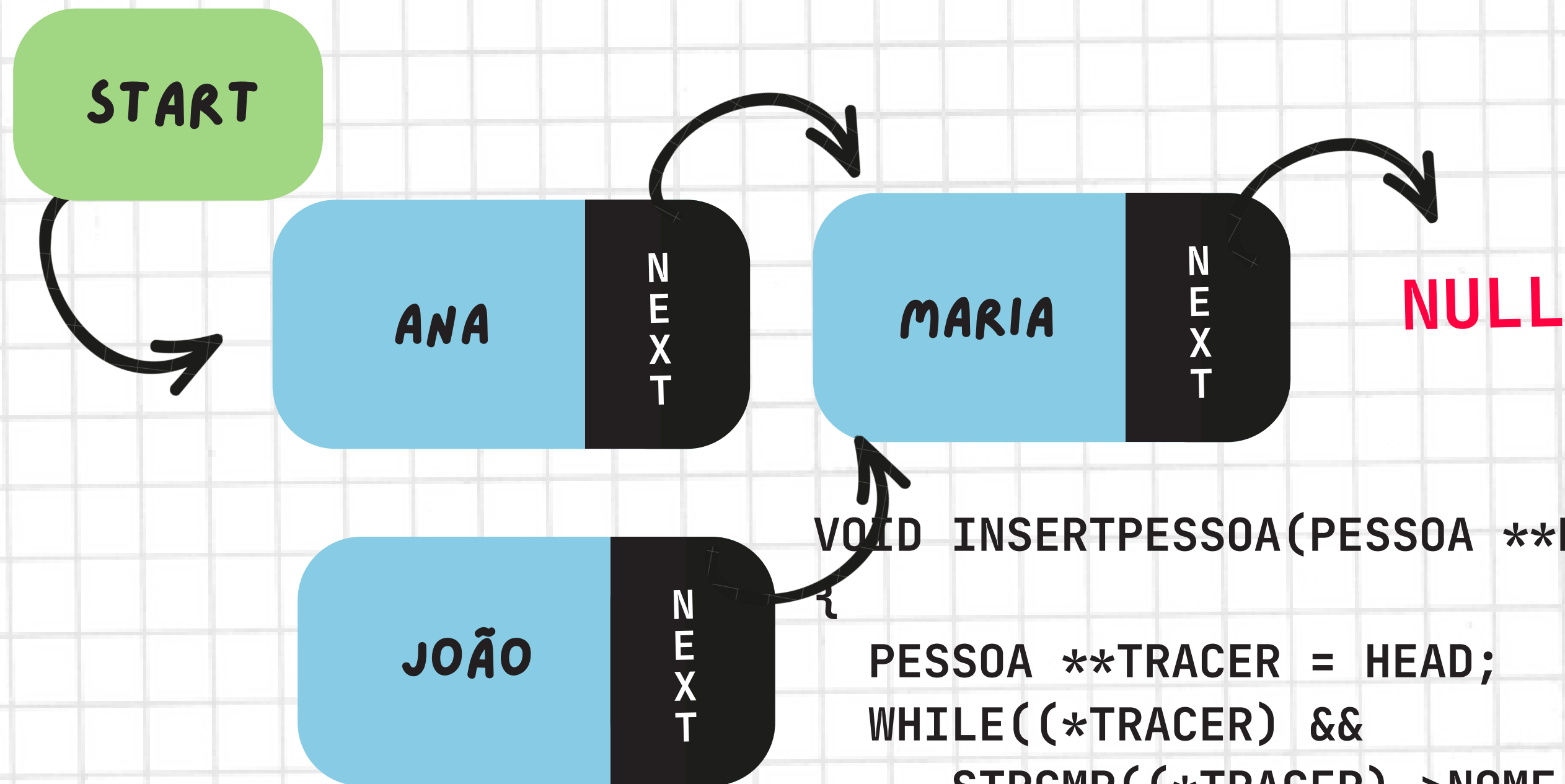
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INSERTPESSOA(&START, NEWELEMENT("JOÃO"));
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```
VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
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    }
    NEWP -> NEXT = *TRACER;
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}
```

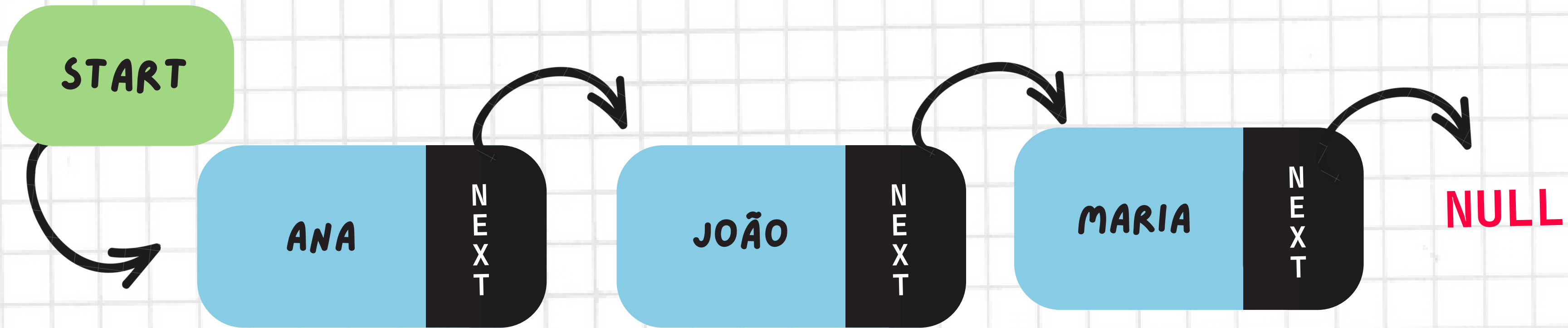


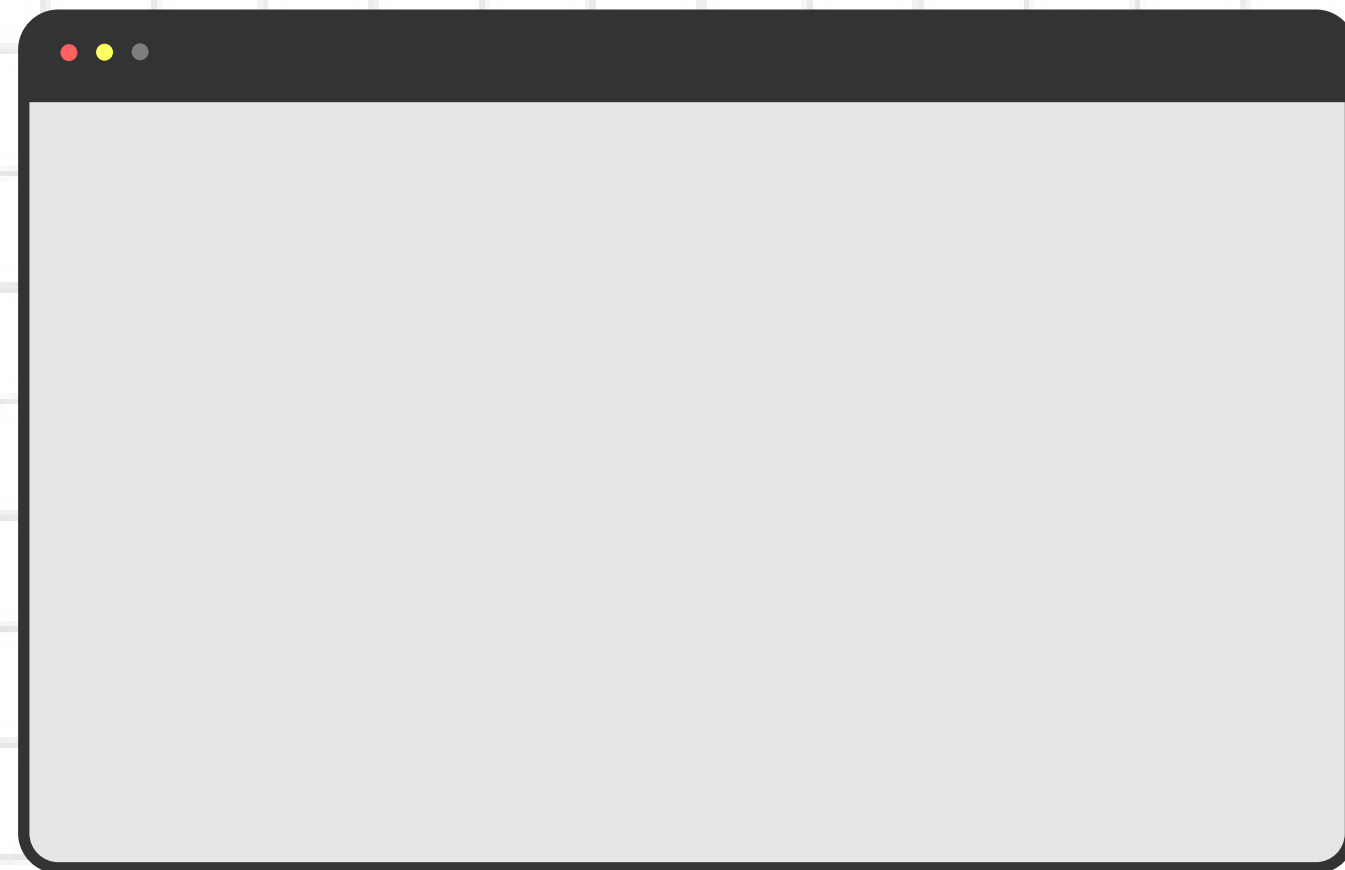
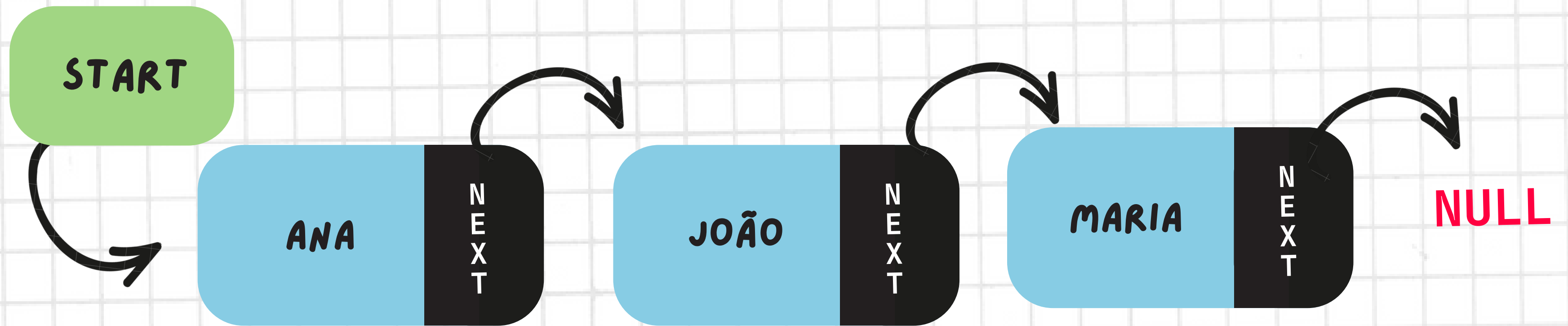
```
INSERTPESSOA(&START, NEWELEMENT("JOÃO"));
```

```
VOID INSERTPESSOA(PESSOA **HEAD, PESSOA *NEWP)
{
    PESSOA **TRACER = HEAD;
    WHILE((*TRACER) &&
        STRCMP((*TRACER)->NOME, NEWP -> NOME) < 1)
    {
        TRACER = &(*TRACER)->NEXT;
    }
    NEWP -> NEXT = *TRACER;
    *TRACER = NEWP;
}
```

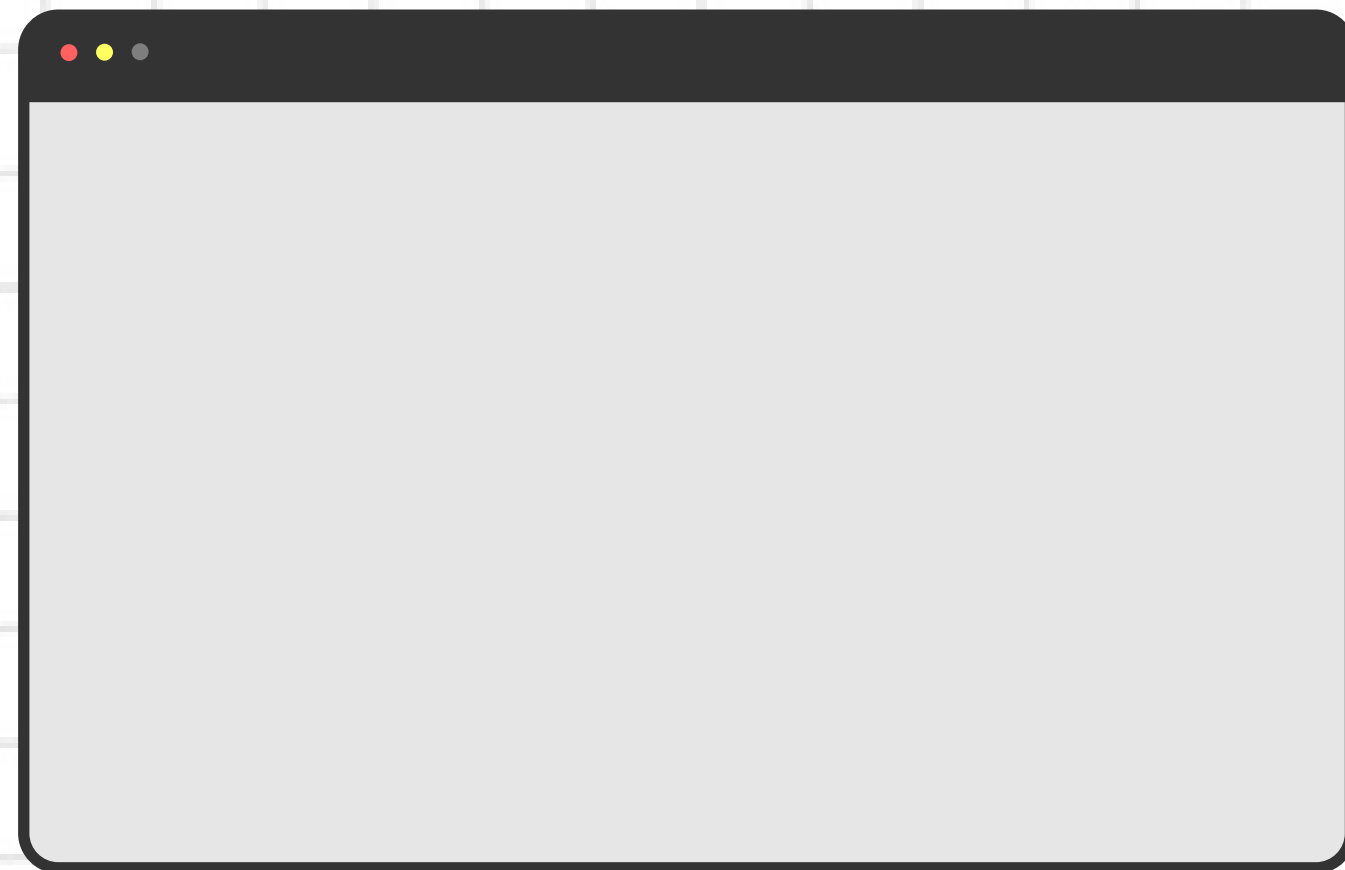
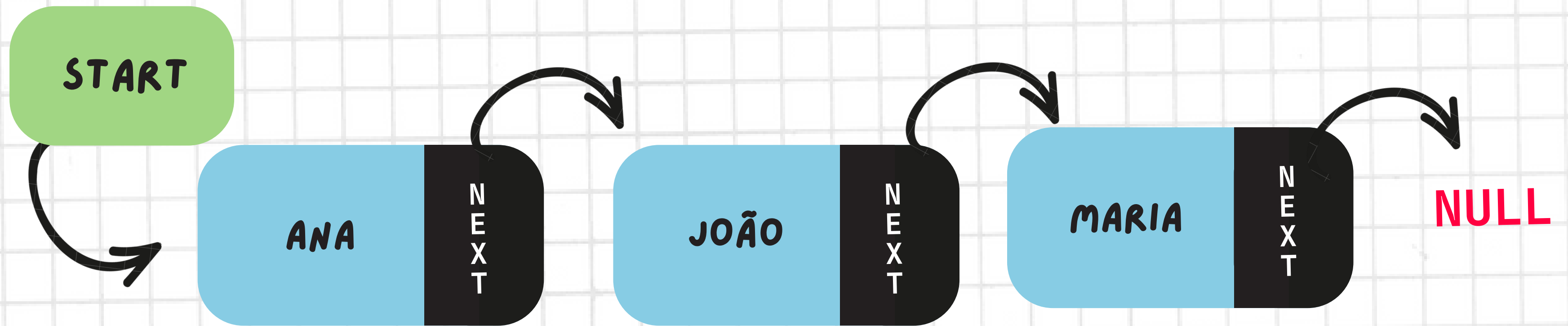
```
INSERTPESSOA(&START, NEWELEMENT("JOÃO"));
```





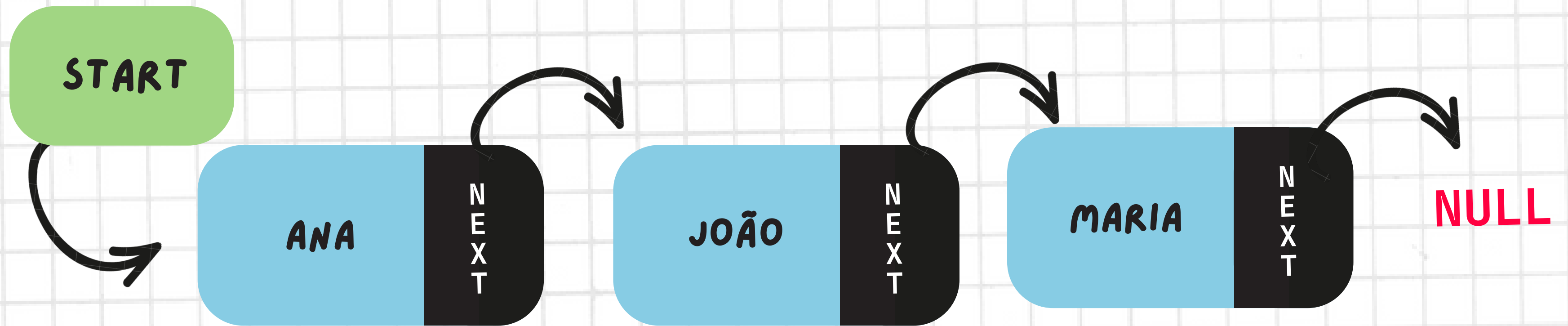
```
VOID PRINTLIST(PESSOA **HEAD)
{
    PESSOA **TRACER = HEAD;
    WHILE (*TRACER) {
        PRINTF("%S \N", (*TRACER)->NOME);
        TRACER = &(*TRACER)->NEXT;
    }
}
```

```
PRINTLIST (&START);
```



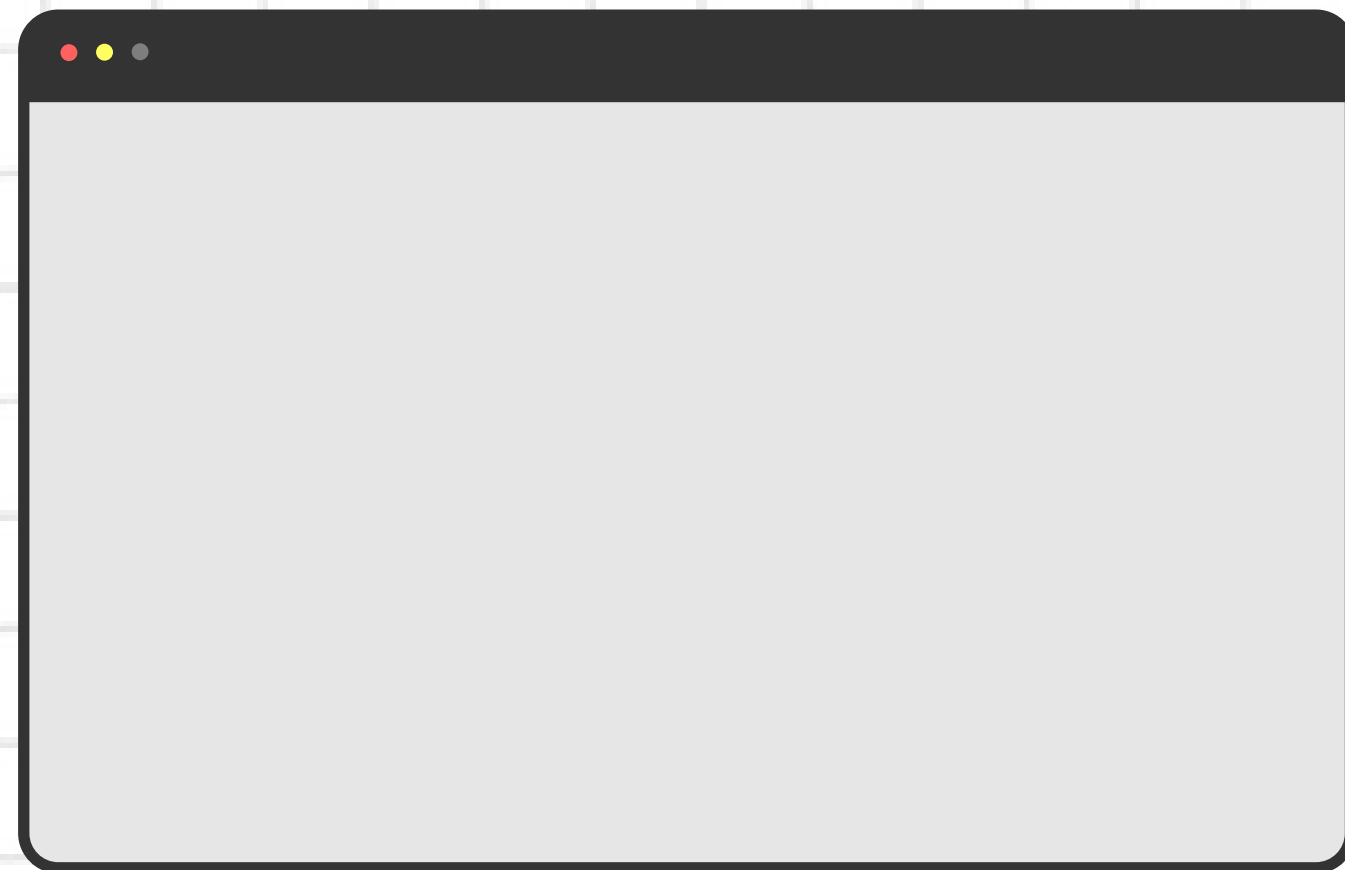
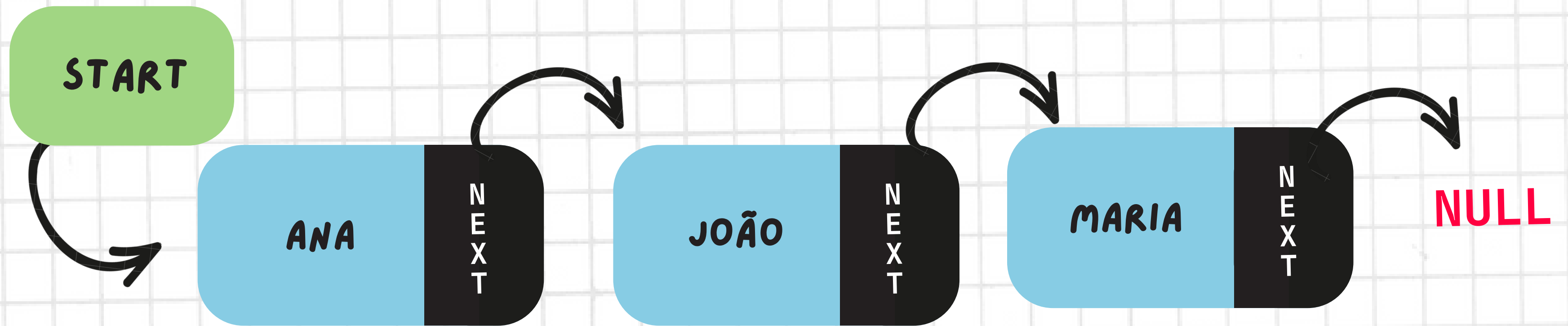
```
VOID PRINTLIST(PESSOA **HEAD)
{
    PESSOA **TRACER = HEAD;
    WHILE (*TRACER) {
        PRINTF("%S \N", (*TRACER)->NOME);
        TRACER = &(*TRACER)->NEXT;
    }
}
```

```
PRINTLIST (&START);
```



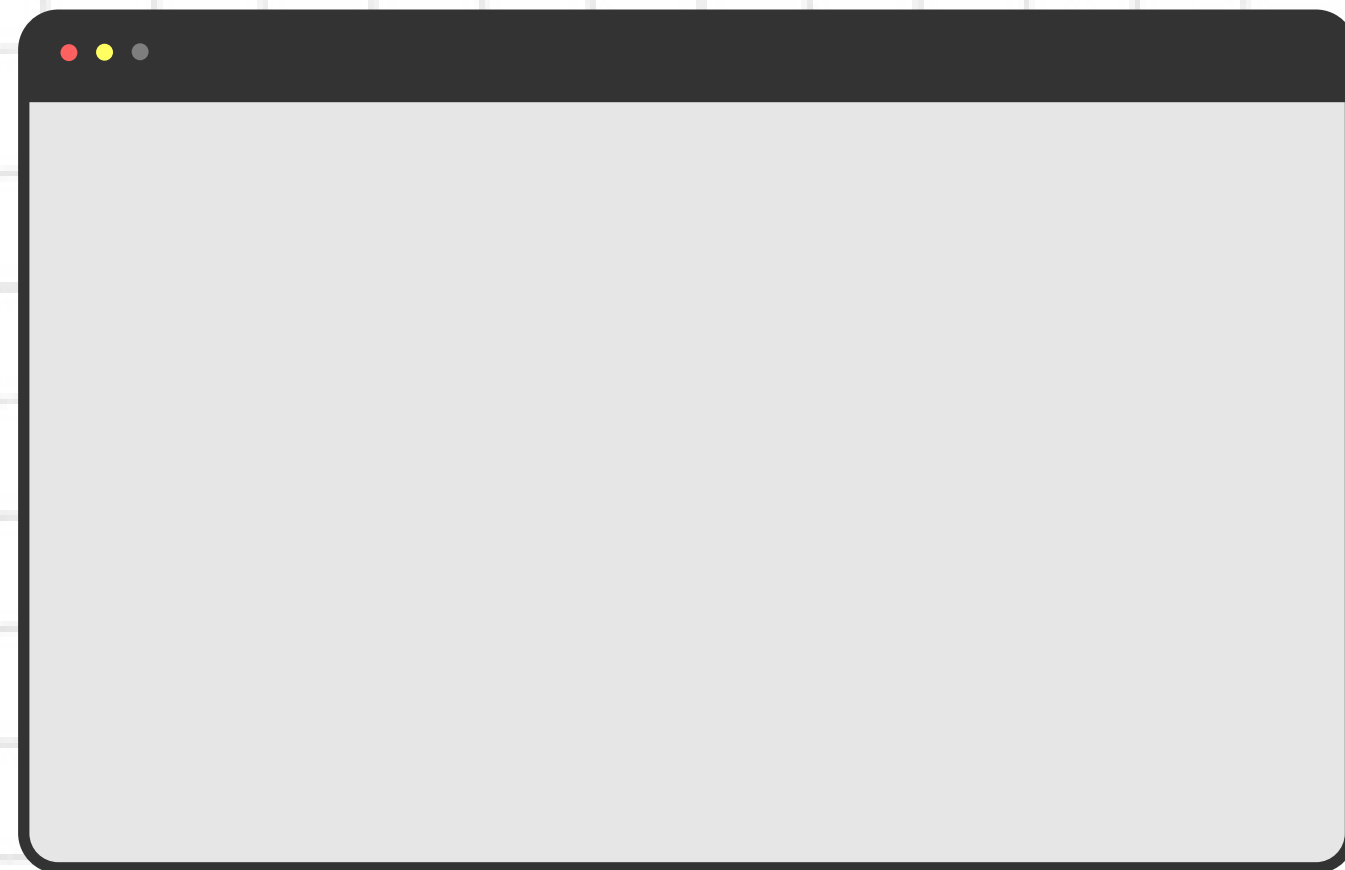
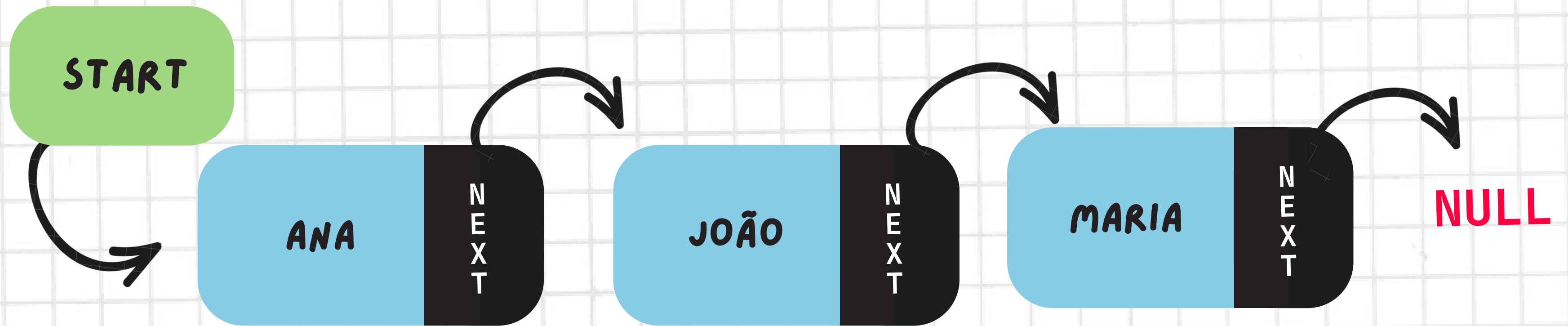
```
VOID PRINTLIST(PESSOA **HEAD)
{
    PESSOA **TRACER = HEAD;
    WHILE (*TRACER) {
        PRINTF("%S \N", (*TRACER)->NOME);
        TRACER = &(*TRACER)->NEXT;
    }
}
```

```
PRINTLIST (&START);
```



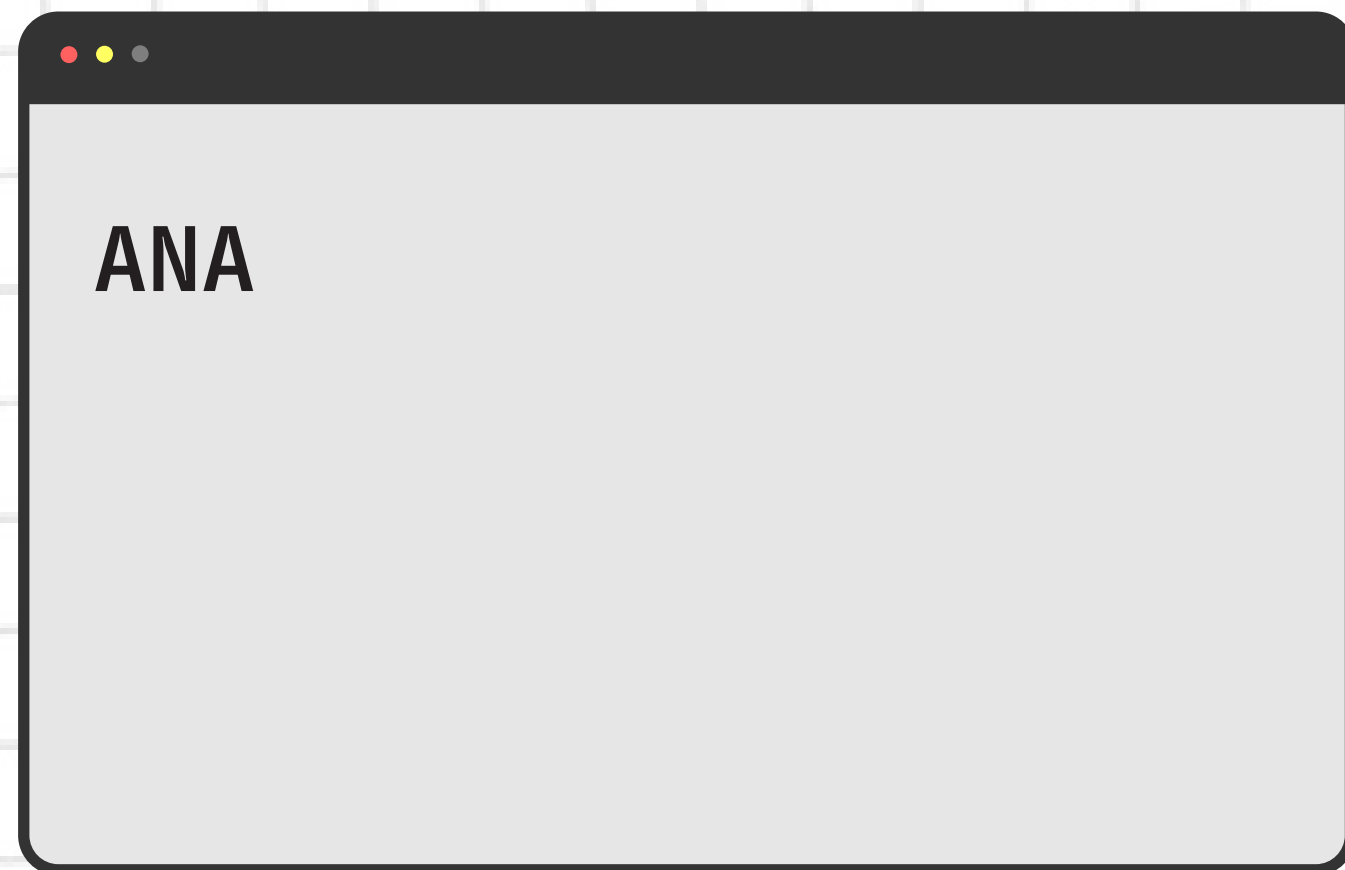
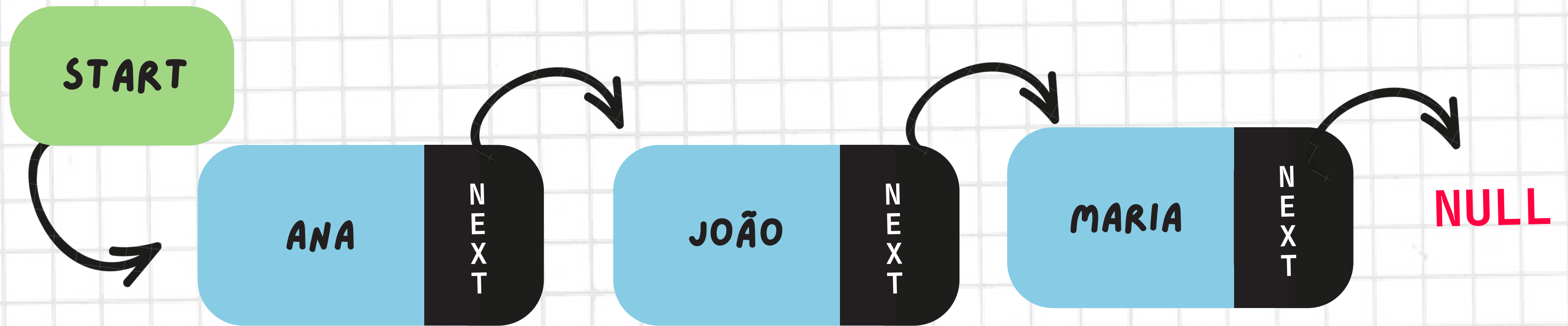
```
VOID PRINTLIST(PESSOA **HEAD)
{
    PESSOA **TRACER = HEAD;
    WHILE (*TRACER) {
        PRINTF("%S \N", (*TRACER)->NOME);
        TRACER = &(*TRACER)->NEXT;
    }
}
```

```
PRINTLIST (&START);
```



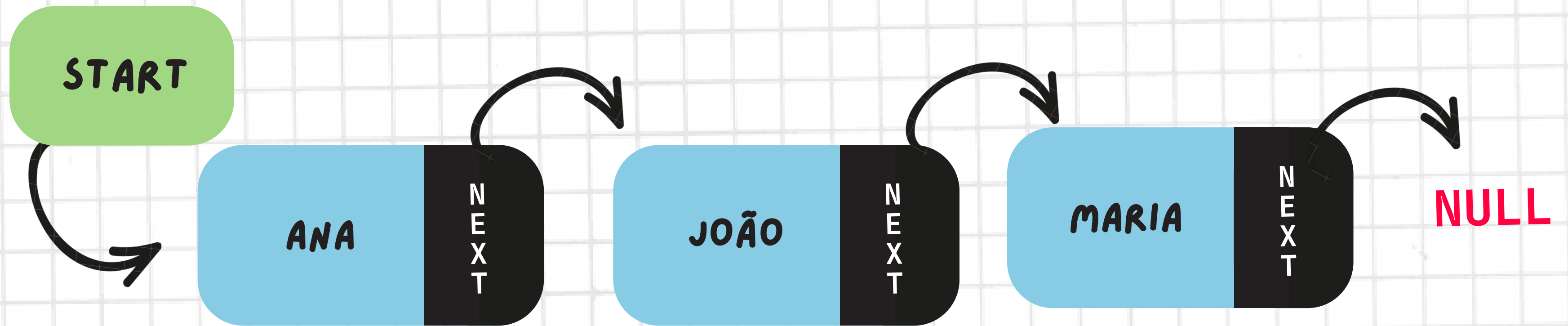
```
VOID PRINTLIST(PESSOA **HEAD)
{
    PESSOA **TRACER = HEAD;
    WHILE (*TRACER) {
        PRINTF("%S \N", (*TRACER)->NOME);
        TRACER = &(*TRACER)->NEXT;
    }
}
```

```
PRINTLIST (&START);
```



```
VOID PRINTLIST(PESSOA **HEAD)
{
    PESSOA **TRACER = HEAD;
    WHILE (*TRACER) {
        PRINTF("%S \N", (*TRACER)->NOME);
        TRACER = &(*TRACER)->NEXT;
    }
}
```

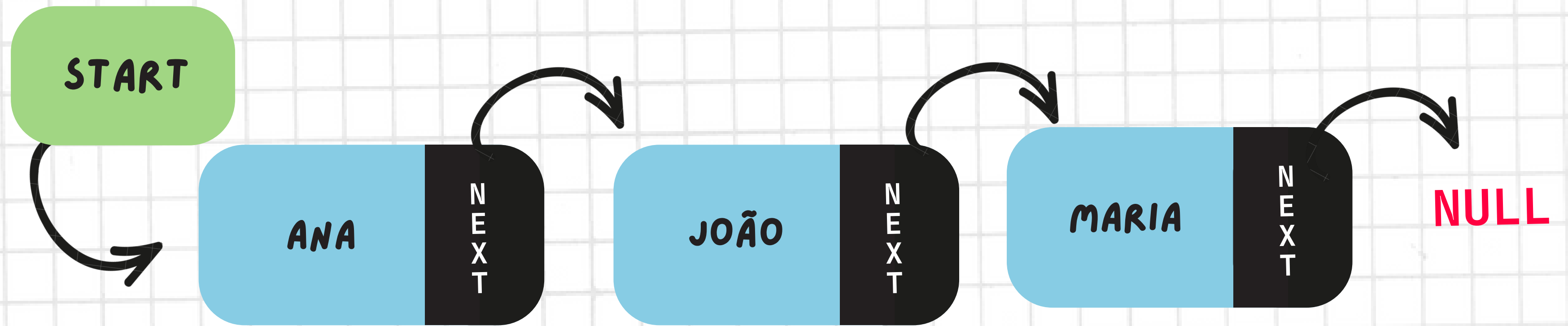
```
PRINTLIST (&START);
```

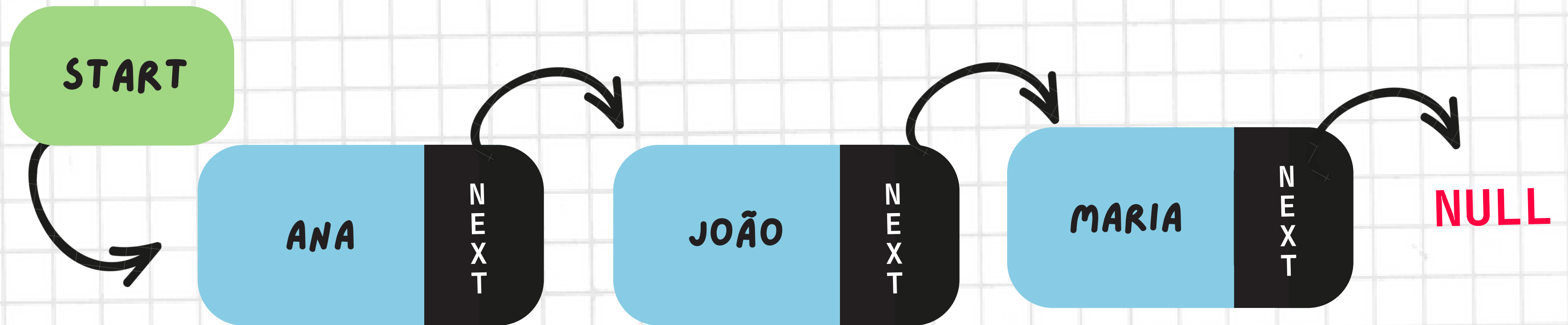



```
ANA
JOÃO
MARIA
```

```
VOID PRINTLIST(PESSOA **HEAD)
{
    PESSOA **TRACER = HEAD;
    WHILE (*TRACER) {
        PRINTF("%S \N", (*TRACER)->NOME);
        TRACER = &(*TRACER)->NEXT;
    }
}
```

```
PRINTLIST (&START);
```





```
VOID REMOVEPESSOA(PESSOA **HEAD, CHAR *TEXT)
```

```
{
```

```
    BOOL PRESENT = FALSE;
```

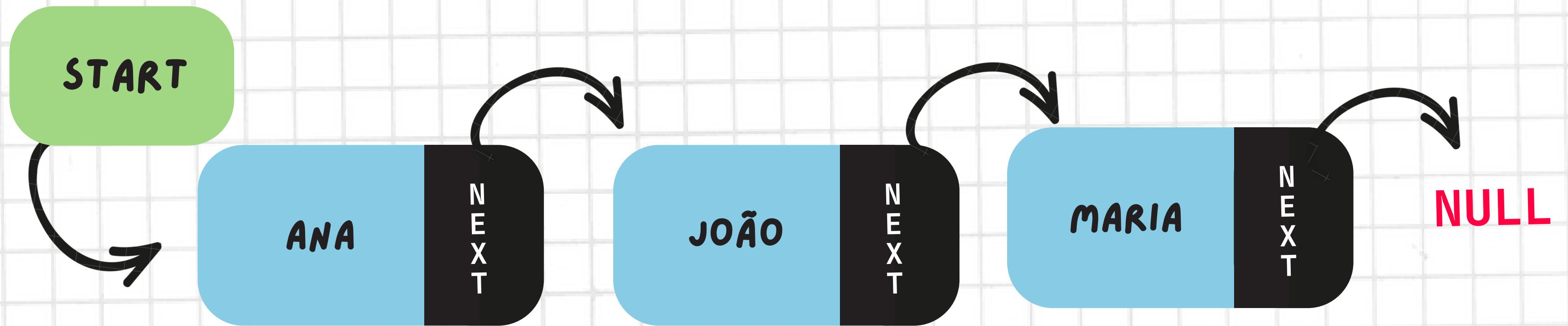
```
    PESSOA *OLD;
```

```
    PESSOA **TRACER = HEAD;
```

```
    WHILE((*TRACER) && !(PRESENT = (STRCMP(TEXT, (*TRACER)->NOME) == 0 ) ))
```

```
        TRACER = &(*TRACER)->NEXT;
```

```
REMOVEPESSOA(&START, "JOÃO");
```



```
VOID REMOVEPESSOA(PESSOA **HEAD, CHAR *TEXT)
```

```
{
```

```
    BOOL PRESENT = FALSE;
```

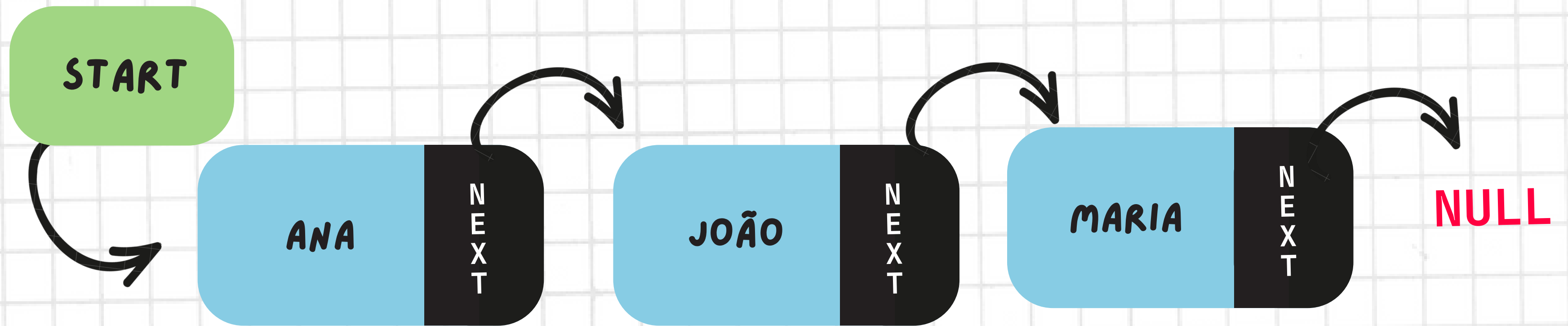
```
    PESSOA *OLD;
```

```
    PESSOA **TRACER = HEAD;
```

```
    WHILE((*TRACER) && !(PRESENT = (STRCMP(TEXT, (*TRACER)->NOME) == 0 ) ))
```

```
        TRACER = &(*TRACER)->NEXT;
```

```
REMOVEPESSOA(&START, "JOÃO");
```



```
VOID REMOVEPESSOA(PESSOA **HEAD, CHAR *TEXT)
```

```
{
```

```
    BOOL PRESENT = FALSE;
```

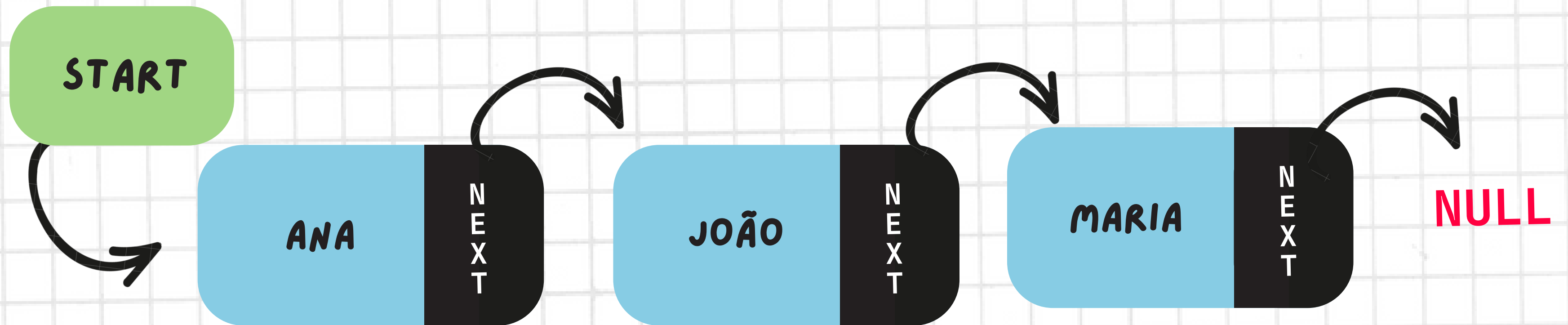
```
    PESSOA *OLD;
```

```
    PESSOA **TRACER = HEAD;
```

```
    WHILE((*TRACER) && !(PRESENT = (STRCMP(TEXT, (*TRACER)->NOME) == 0 ) ))
```

```
        TRACER = &(*TRACER)->NEXT;
```

```
REMOVEPESSOA(&START, "JOÃO");
```



```
VOID REMOVEPESSOA(PESSOA **HEAD, CHAR *TEXT)
```

```
{
```

```
    BOOL PRESENT = FALSE;
```

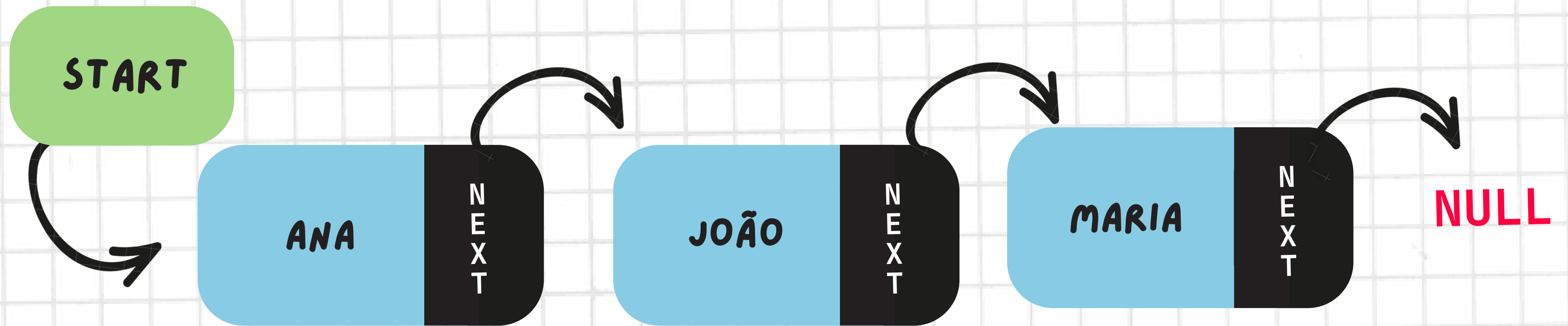
```
    PESSOA *OLD;
```

```
    PESSOA **TRACER = HEAD;
```

```
    WHILE((*TRACER) && !(PRESENT = (STRCMP(TEXT, (*TRACER)->NOME) == 0 ) ))
```

```
        TRACER = &(*TRACER)->NEXT;
```

```
REMOVEPESSOA(&START, "JOÃO");
```



```
VOID REMOVEPESSOA(PESSOA **HEAD, CHAR *TEXT)
```

```
{
```

```
    BOOL PRESENT = FALSE;
```

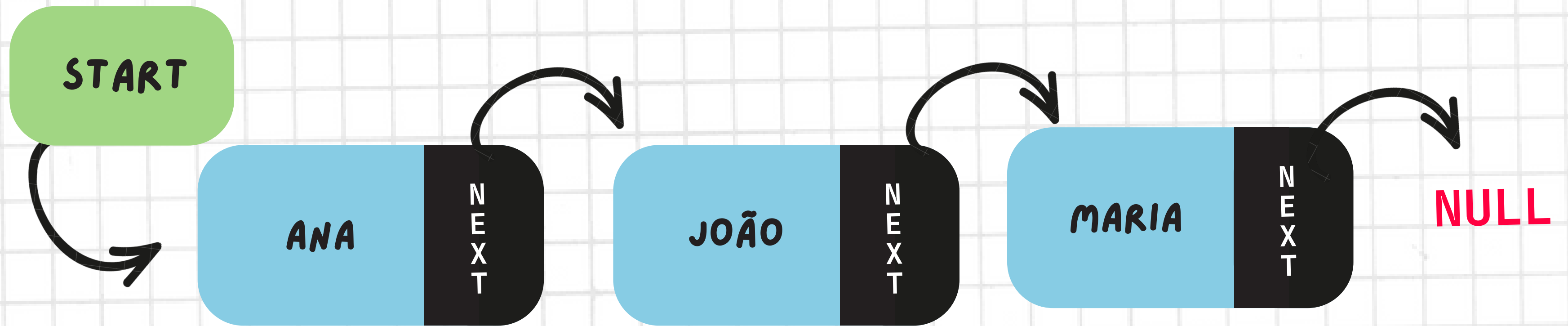
```
    PESSOA *OLD;
```

```
    PESSOA **TRACER = HEAD;
```

```
    WHILE((*TRACER) && !(PRESENT = (STRCMP(TEXT, (*TRACER)->NOME) == 0 ) ))
```

```
        TRACER = &(*TRACER)->NEXT;
```

```
REMOVEPESSOA(&START, "JOÃO");
```



```
VOID REMOVEPESSOA(PESSOA **HEAD, CHAR *TEXT)
```

```
{
```

```
    BOOL PRESENT = FALSE;
```

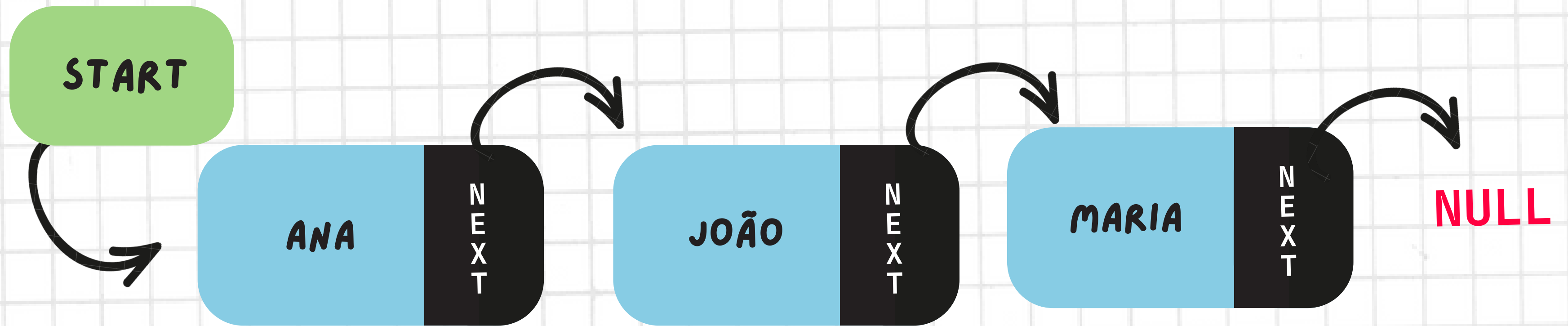
```
    PESSOA *OLD;
```

```
    PESSOA **TRACER = HEAD;
```

```
    WHILE(( *TRACER ) && !(PRESENT = (STRCMP(TEXT, (*TRACER)->NOME) == 0 ) ) )
```

```
        TRACER = &(*TRACER)->NEXT;
```

```
REMOVEPESSOA(&START, "JOÃO");
```

```
VOID REMOVEPESSOA(PESSOA **HEAD, CHAR *TEXT)
```

```
{
```

```
    BOOL PRESENT = FALSE;
```

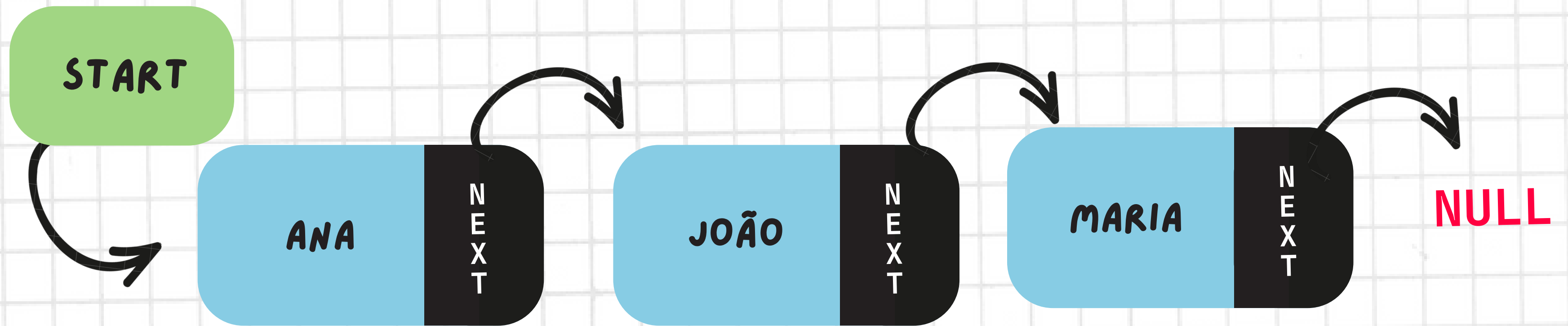
```
    PESSOA *OLD;
```

```
    PESSOA **TRACER = HEAD;
```

```
    WHILE( (*TRACER) && !(PRESENT = (STRCMP(TEXT, (*TRACER)->NOME) == 0 ) ) )
```

```
        TRACER = &(*TRACER)->NEXT;
```

```
REMOVEPESSOA(&START, "JOÃO");
```



IF(PRESENT)

{

OLD = *TRACER;

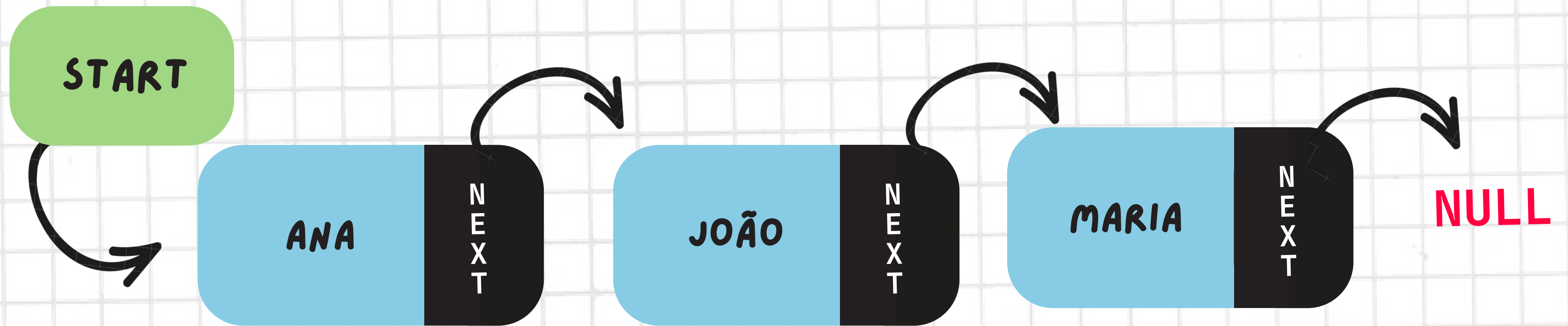
*TRACER = (*TRACER)->NEXT;

FREE(OLD -> NOME);

FREE(OLD);

}

REMOVEPESSOA(&START, "JOÃO");



```
IF(PRESENT)
```

```
{
```

```
    OLD = *TRACER;
```

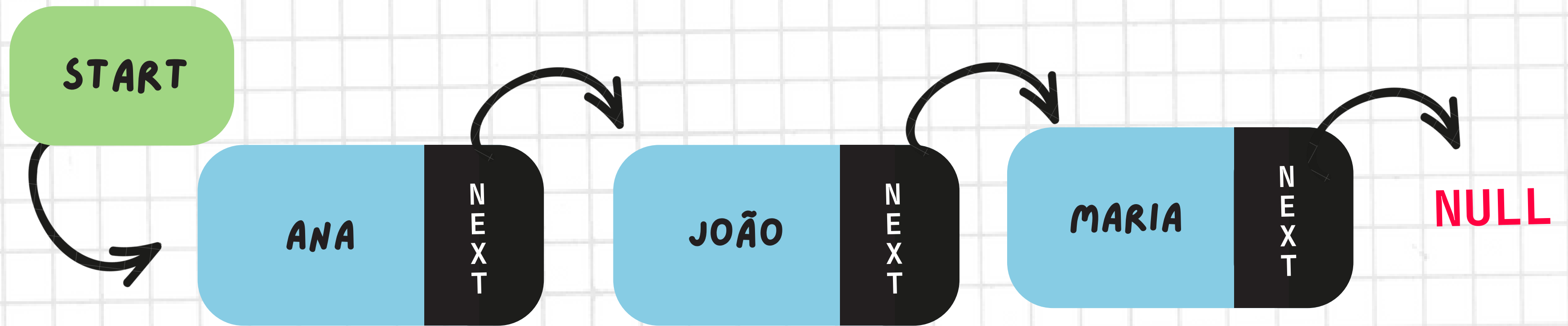
```
    *TRACER = (*TRACER)->NEXT;
```

```
    FREE(OLD -> NOME);
```

```
    FREE(OLD);
```

```
}
```

```
REMOVEPESSOA(&START, "JOÃO");
```



```
IF(PRESENT)
```

```
{
```

```
    OLD = *TRACER;
```

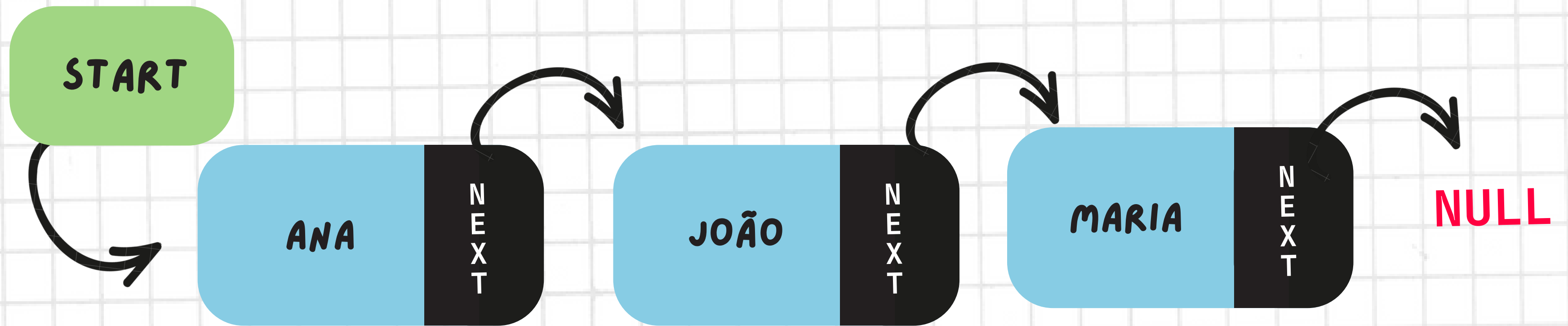
```
    *TRACER = (*TRACER)->NEXT;
```

```
    FREE(OLD -> NOME);
```

```
    FREE(OLD);
```

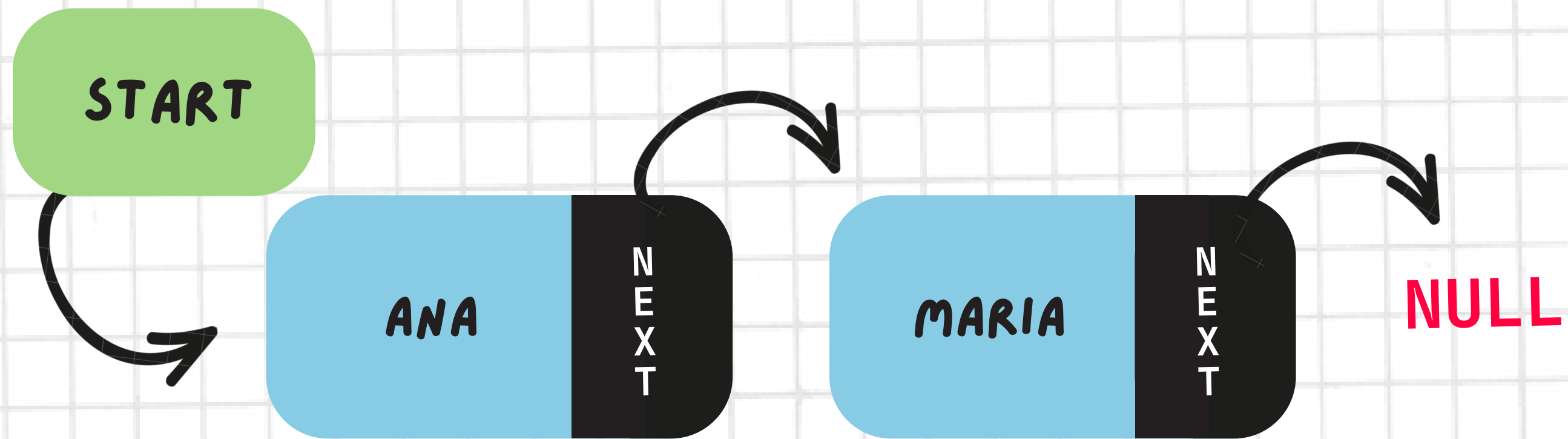
```
}
```

```
REMOVEPESSOA(&START, "JOÃO");
```



```
IF(PRESENT)
{
    OLD = *TRACER;
    *TRACER = (*TRACER)->NEXT;
    FREE(OLD -> NOME);
    FREE(OLD);
}
```

```
REMOVEPESSOA(&START, "JOÃO");
```



```
IF(PRESENT)
{
    OLD = *TRACER;
    *TRACER = (*TRACER)->NEXT;
    FREE(OLD -> NOME);
    FREE(OLD);
}
```

```
REMOVEPESSOA(&START, "JOÃO");
```

**OBRIGADA
PELA
ATENÇÃO**

