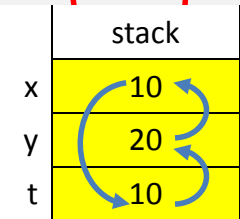
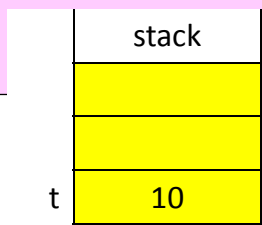


```
void swap0 (int x, int y){
    int t;
    t = x;
    x = y;
    y = t;
}
```



```
void swap (int *x, int *y){
    int t;
    t = *x;
    *x = *y;
    *y = t;
}
```

x=address
*x=value

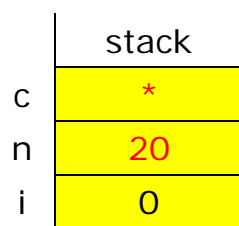


```
main(){
    int a=10, b=20;
    swap0 (a,b);
    printf("a=%i, b=%i\n", a,b);
    // a=10, b=20

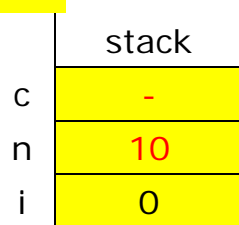
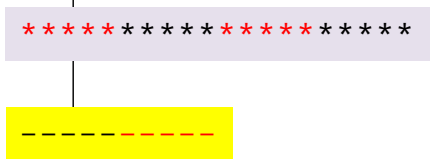
    swap (&a, &b);
    printf("a=%i, b=%i\n", a,b);
    // a=20, b=10
}
```



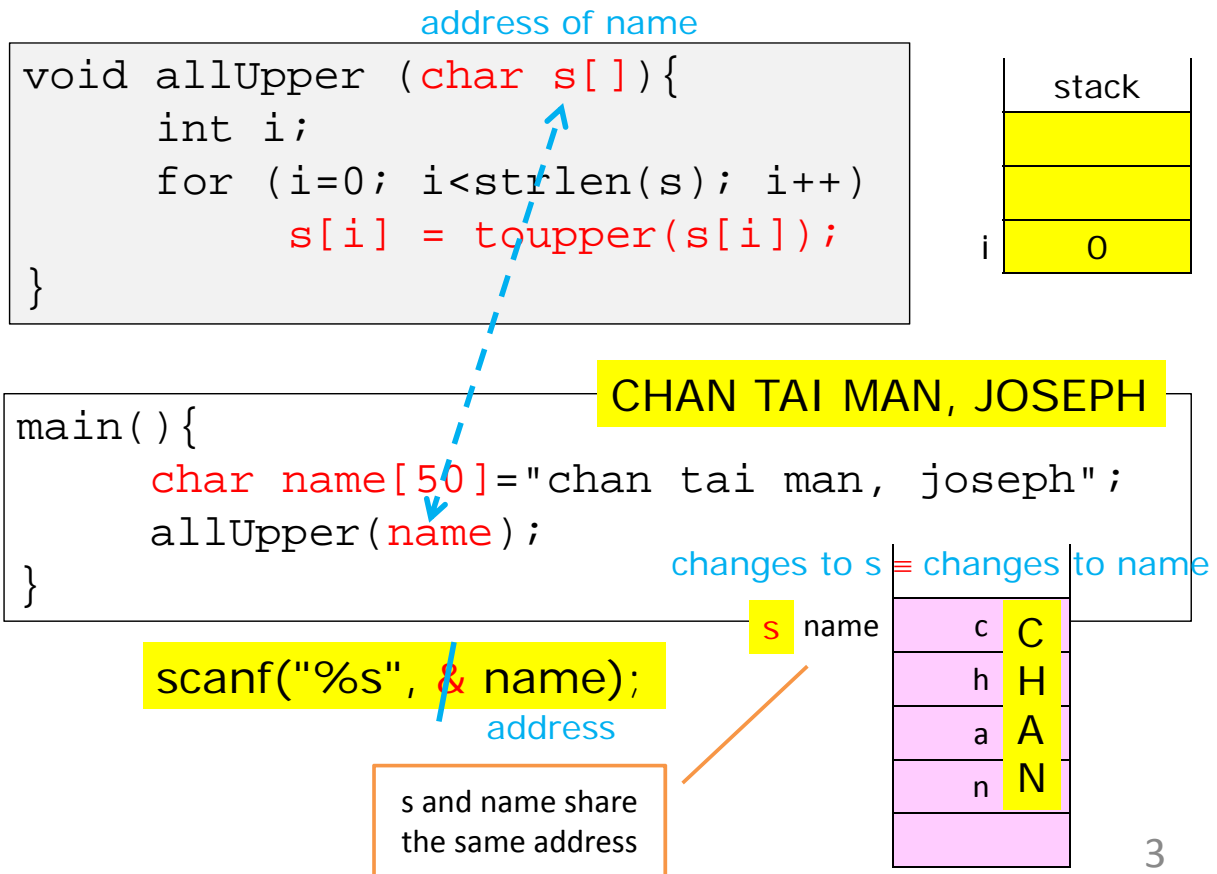
```
void drawLine (char c, int n){
    int i;
    for (i=0; i<n; i++)
        printf("%c", c);
    printf("\n");
}
```



```
main(){
    drawLine ('*',20);
    ...
    drawLine ('-',10);
}
```



Call by Reference 按址調用



	地址Address	值Value
int x=10;	&x	x
int *y;	y	*y
char s[10];	&s[0], &s[9]	s[0], s[9]
char *s;	s, s+1	*s, *(s+1)

```

int x=10;
int *y;
    
```

```

printf(" x=%i\n", x);
printf("*y=%i\n", *y); // error
    
```

```

y = &x;
printf("*y=%i\n", *y);
    
```

```

y = malloc(sizeof(int));
*y = 100;
printf("*y=%i\n", *y);
    
```

```
int sumN (int n){  
    if(n<=0) return 0;  
    return n+sumN(n-1);  
}
```

```
main(){  
    int a=10, b=20, c=30;  
    c = sumN (a);  
    printf("c=%i\n", c);  
}
```

