



2020-2021
At School and at Home

3. Concatenation: is the operation of joining two strings

CONCATENATE(String1, String2)

CONCATENATE("INDIA IS", " GREAT")

INDIA IS GREAT





3. Concatenation: is the operation of joining two strings

CONCATENATE(String1, String2)

CONCATENATE("INDIA IS", " GREAT")

INDIA IS GREAT

4. Length find the number of characters in a string

LENGTH(String)

LENGTH("INDIA")

5



Fixed length structures

All records have the same length

Fortran Language

.

.

READ J, K

PRINT J, K

.

.

R	E	A	D	J	K		
0	1	2	3	4	5	79	80

P	R	I	N	T	J	K	
0	1	2	3	4	5	6	79 80



Fixed length structures

Disadvantage

Time is wasted reading entire record, most of them have blank space

More records

R	E	A	D	J	K		
0	1	2	3	4	5	79	80
P	R	I	N	T	J	K	
0	1	2	3	4	5	6	79 80



Fixed length structures

Disadvantage

Time is wasted reading entire record, most of them have blank space

More records

Word correction – entire record has to be changed

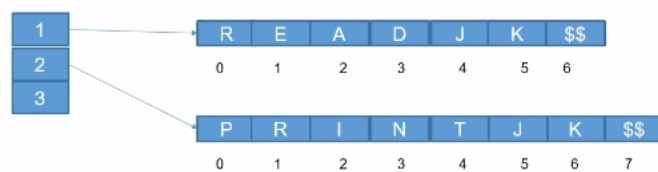
R	E	A	D	J	K		
0	1	2	3	4	5	79	80
P	R	I	N	T	J	K	
0	1	2	3	4	5	6	79 80



Variable length storage with fixed maximum

Two different ways

- Use \$\$
- Length can be saved

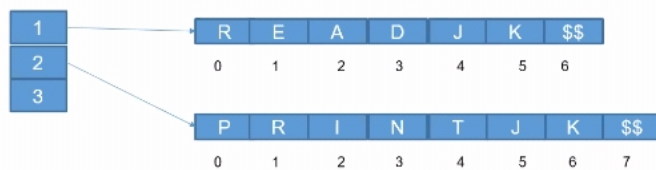




Variable length storage with fixed maximum

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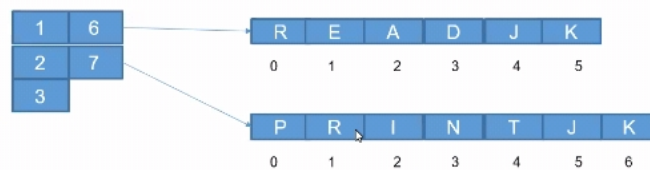




Variable length storage with fixed maximum

Two different ways

- Use \$\$
- Length can be saved





Linked Storage

Strings may be stored in linked storage

Linear order sequence





String Copy Function in <cstring>

```
void strcpy(char dest[], const char src[]);
```

example:

```
char name1[16], name2[16];
```

```
strcpy(name1, "Chan Tai Man");
```

name1:

C	h	a	n		T	a	i		M	a	n	\0	?	?	?
---	---	---	---	--	---	---	---	--	---	---	---	----	---	---	---

name2:

```
strcpy(name2, "9999999999999999");
```

9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	\0
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

```
strcpy(name2, name1);
```

name2:

C	h	a	n		T	a	i		M	a	n	\0	9	9	\0
---	---	---	---	--	---	---	---	--	---	---	---	----	---	---	----



```
void str_copy(char dect[20], char src[20])
```

```
{  
    for(int i=0;i<strlen(src);i++)  
    {  
        dect[i]=src[i];  
    }  
}
```

```
int main()  
{  
    char a[20]="india",b[20];  
    str_copy(b,a);  
    printf("copyed str is %s\n",b);  
    return 0;  
}
```

kiran p's screen





void str_copy(char dect=3000, char src=2000)

```
{
    for(int i=2;i<3;i++)
        dect[2]='d';
    dect[3]='\0';
}
```

int main()

{ char a[20]="india",b[20];

str_copy(3000, 2000);

printf("copyed str is %s\n",b);

return 0;

}

