

Assignment - 20

①

```
#include <stdio.h>
```

```
int main * swap (int *, int *);
```

```
int  
{ main ()
```

```
int a, b;
```

```
printf("Enter a number");
```

```
scanf("%d %d", &a, &b);
```

```
printf("Before swapping a=%d, b=%d", a, b);
```

```
printf("Swapping\n");
```

```
printf("a=%d, b=%d",
```

```
swap(&a, &b);
```

```
printf("%d %d", a, b);
```

```
return 0;
```

```
}
```

```
int * swap (int *p, int *q)
```

```
{
```

```
int temp;
```

```
temp = *p;
```

```
*p = *q;
```

```
*q = temp;
```

```
}
```

② int swap (int *p, int *r, int);

int main()

```
{
    int n;
    printf("Enter a number");
    scanf("%d", &n);
    int arr[n];
    printf("Enter a number for array");
    for (int i=0; i<n; i++)
        scanf("%d", &arr[i]);
    printf("Enter a second array");
    for (int i=0; i<n; i++)
        scanf("%d", &arr[i]);
    swap("enter second array");
    swap(arr, arr, n);
    for (int i=0; i<n; i++)
        printf(" %d \n", arr[i]);
}
```

int swap (int *p, int *r, int n)

```
{
    int temp[n];
    for (int i=0; i<n; i++)
    {
        temp[i] = *(p+i);
        *(p+i) = *(r+i);
        *(r+i) = temp[i];
    }
}
```

③ void sort(int*, int);
int main()

{
 int n;
 printf("Enter a number");
 scanf("%d", &n);
 int arr[n];
 printf("Enter array number");
 for (int i=0; i<n; i++)
 scanf("%d", &arr[i]);
 sort(arr, n);
 return 0;
}

void sort (int *a, int p)

{
 int i, j;
 for (i=0; i<p-1; i++)
 {
 for (j=i+1; j<p; j++)
 {
 if (*a+i > *a+j)
 {
 int temp;
 temp = *a+i;
 *a+i = *a+j;
 *a+j = temp;
 }
 }
 }
}


```

printf("
for (i=0; i<P; i++)
    printf("%d\n", *(a+i));
}

```

④

```

int
#include <stdio.h>
int main()
{
    int a, *p, **q, ***r;
    p = &a;
    q = &p;
    r = &q;
    printf("%d", p);
    printf("%d\n %d\n %d\n", *p, q, *
    printf("%d\n %d\n", r, *r);
    return 0;
}

```

⑤

```

#include <stdio.h>
int main()
{
    int a, b;
    printf("Enter a number");
    scanf("%d %d", &a, &b);
    int *p, *q;

```

p = 29;

q = 25;

If (*p > *q)
printf("etod", *p);

else
printf("od", *q);

}

⑥ #include <stdio.h>
void length (char*);
int main()

{

char str[1000];

int i;

printf("Enter character");

fgets(str, 1000, stdin);

length(str);

return 0;

}

void length (char* p)

{

int i;

for(i=0; p[i]; i++);

printf("length = %d", i);

}

⑦ ~~main.c~~ main.c

```
#include <stdio.h>
```

```
void vowelconst (in char *);
```

```
int main()
```

```
{ char str[1000];
```

```
in for
```

```
fgets(str, 50, stdin)
```

```
length (str);
```

```
}
```

```
void vowelconst (in char *p)
```

```
{
```

```
int i, count=0, m=0, k;
```

```
for (i=0; p[i]; i++)
```

```
{ if ((p[i]=='a') || (p[i]=='e') || (p[i]=='i')  
    (p[i]=='o') || (p[i]=='u'))
```

```
count++;
```

```
if (p[i]!='a' && p[i]<='z')
```

```
m++;
```

```
}
```

```
printf("total vowel = %d", count);
```

```
k = m - count;
```

```
printf("\n total cons = %d", k);
```

```
}
```


⑧ int main()

{

int n, i;

printf("enter a number");

scanf("%d", &n);

int arr[n];

printf("enter array");

for (int i=0; i<n; i++)

scanf("%d", &arr[i]);

~~int *ptr;~~

int sum=0;

for (i=0; i<n; i++)

sum += arr[i];

printf("%d", sum);

return 0;

}

⑨ #include <stdio.h>

int main()

{

int n, i;

printf("enter a number");

scanf("%d", &n);

int arr[n];

printf("enter a number");

~~scanf("%d", &n);~~

```

for (int i=0; i<n; i++)
    scanf("%d", &arr[i]);
for (int i=n-1; i>=0; i--)
    printf("%d", *(&arr+i));
return 0;

```

```

(10) #include <stdio.h>
int main()
{
    int char arr str[50];
    printf("Enter character");
    fgets(str, 50, stdin);
    int l;
    l = strlen(str);
    for (int i=l, i>=0; i--)
        printf("%c", *(str+i));
    return 0;
}

```