

ASSIGNMENT

1. Write a program to demonstrate use of string library functions.

- a. strlen()
- b. strcpy()
- c. strcat()
- d. strcmp()
- e. strcmp()
- f. strrev()
- g. strchr()
- h. strstr()
- i. strncpy()
- j. strncat()
- k. strncmp()

2. Write a program to simulate the following library functions.

- a. `size_t strlen(const char *str);`
- b. `char* strrev(char* str);`
- c. `char* strcpy(char *dest, const char *src);`



1. #include<stdio.h>

int main(void)

{

char *courses[]={ "PG-DAC","PG-DESD","PG-DMC",
"PreCAT","PG-DBDA"};

char *temp=NULL;

int i;

temp = courses[3];

courses[3] = courses[4];

courses[4] = temp;

for(i=0; i<=4; i++)

printf("%s,", courses[i]);

return 0;

}

- A. PG-DAC,PG-DESD,PG-DMC,PreCAT,PG-DBDA,
- B. PG-DAC,PG-DESD,PG-DBDA,PreCAT,PG-DMC,
- C. PG-DAC,PG-DESD,PG-DMC,PG-DBDA,PreCAT,
- D. Compile time error.

Answer: C



2. #include <stdio.h>

int main(void)

{

int a[5] = {5, 1, 15, 20, 25};

int i, j, m;

i = ++a[1];

j = a[1]++;

m = a[i++];

printf("%d, %d, %d", i, j, m);

return 0;

}

A. 3,2,15

B. 2,3,20

C. 2,1,15

D. 1,2,5

Answer: A



3. #include<stdio.h>

int main(void)

{

static char *s[] = { "PG-DAC" , "PG-DMC", "PG-DBDA",
"PG-DESD" };

char **ptr[] = {s+3, s+2, s+1, s};

char ***p=NULL;

p = ptr;

p++;

++p;

printf("%s", **p+3);

return 0;

}

A. PG-DMC

B. PG-DBDA

C. PG-DESD

D. DMC

Answer: D



4. If following program having name cmdline is run from the command line as –

`./cmdline.out PG-DBDA PG-DESD PG-DMC PG-DAC`
then what would be the output?

```
#include<stdio.h>
int main(int argc, char *argv[])
{
    int i=0, len=argc;
    while(argv[i])
    {
        printf("%c", argv[i++][argc-len]);
    }
    return 0;
}
```

- A. .PPPP
- B. /DSCC
- C. .DSCC
- D. /PPPP
- E. h-DMC

Answer: A