17. Lab 2 1st program

#include <stdio.h>

#include<stdlib.h>

void Reverse(int \*p,int n)

{

int \*b,\*l,\*mid;

l=p+n;

mid=p+(l-p)/2;

l=l-1;

for(b=p;b<=mid;b++,l--)

{

int t;

t=\*b;

\*b=\*l;

\*l=t;

}

}

int main()

{

printf("Hello World");

int \*a;

a=calloc(6,sizeof(int));

int n=6;

printf("enter the elements into the array\n");

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

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

Reverse(a,n);

printf("the reversed array is \n");

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

printf("%d\t",a[i]);

//printf("%d",s);

return 0;

}

Hello Worldenter the elements into the array

1

2

3

4

5

5

the reversed array is

5 5 3 4 2 1

18. lab 2 2nd program

#include <stdio.h>

#include<stdlib.h>

int \* Smallest(int \*p,int n)

{

int \*b,\*l,\*mid;

l=p+n-1;

int \*s=p;

for(b=p;b<=l;b++)

{

if(\*s>\*b)

s=b;

}

return s;

}

int main()

{

printf("Hello World");

int \*a;

a=calloc(6,sizeof(int));

int n=6;

printf("enter the elements into the array\n");

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

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

int \*ss=Smallest(a,n);

printf("%d is smallest",\*ss);

//printf("%d",s);

return 0;

}

19. lab 2 4th program

#include <stdio.h>

#include<stdlib.h>

int m,n,p,q;

void Multi2mat(int \*\*a,int \*\*b,int \*\*c)

{

int i,j,k;

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

{

for(j=0;j<q;j++)

{

\*(\*(c+i)+j)=0;

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

\*(\*(c+i)+j)=\*(\*(c+i)+j)+(\*(\*(a+i)+k)) \* (\*(\*(b+k)+j));

}

}

}

int main()

{

printf("Hello World");

int i,j,k;

printf("enter the dimension of matrix a");

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

printf("enter the dimension of matrix a");

scanf("%d%d",&p,&q);

if(n!=p)

{

printf("mul not possible\n");

exit(0);

}

int \*a[m],\*b[p],\*c[m];

for(i=0;i<m;i++){

a[i]=calloc(n,sizeof(int));

c[i]=calloc(q,sizeof(int));

}

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

b[i]=calloc(q,sizeof(int));

printf("enter the elements into the 'a' array\n");

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

{

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

scanf("%d",(\*(a+i)+j));

}

printf("the elements of a matrix are \n");

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

{

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

printf("%d\t",\*(\*(a+i)+j));

printf("\n");

}

printf("enter the elements into the 'b' array\n");

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

{

for(j=0;j<q;j++)

scanf("%d",(\*(b+i)+j));

}

printf("the elements of a matrix are \n");

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

{

for(j=0;j<q;j++)

printf("%d\t",\*(\*(b+i)+j));

printf("\n");

}

Multi2mat(a,b,c);

printf("the elements of c matrix are \n");

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

{

for(j=0;j<q;j++)

printf("%d\t",\*(\*(c+i)+j));

printf("\n");

}

return 0;

}