**Suma de matrices**

|  |
| --- |
| #include<stdio.h> |
|  |
|  | #include<conio.h> |
|  |  |
|  |  |
|  |  |
|  | int tablaA[3][3],a,b,tablaB[3][3],c,d,tablaC[3][3],\*ap1,\*ap2,\*ap3,\*ap4,\*ap5; |
|  |  |
|  | main(){ |
|  | for(a=1;a<3;a++){ |
|  | ap1 = &a; |
|  | for(b=1;b<3;b++){ |
|  | ap2 = &b; |
|  | printf("Ingresar elemento TablaA[%d,%d]: ",\*ap1,\*ap2); |
|  | scanf("%d",&tablaA[\*ap1][\*ap2]); |
|  | } |
|  | } |
|  | printf("\n"); |
|  | for(c=1;c<3;c++){ |
|  | ap3 = &c; |
|  | for(d=1;d<3;d++){ |
|  | ap4 = &d; |
|  | printf("Ingresar elemento TablaB[%d,%d]: ",\*ap3,\*ap4); |
|  | scanf("%d",&tablaB[\*ap3][\*ap4]); |
|  | } |
|  | } |
|  |  |
|  | printf("\n"); |
|  | for(a=1;a<3;a++){ |
|  | ap1 = &a; |
|  | tablaC[\*ap1][1]=tablaA[\*ap1][1]+tablaB[\*ap1][1]; |
|  | tablaC[\*ap1][2]=tablaA[\*ap1][2]+tablaB[\*ap1][2]; |
|  | } |
|  |  |
|  | ap5 = &tablaC[1][1]; |
|  | printf("TablaC[1,1] = %d\n",\*(ap5)); |
|  | printf("TablaC[1,2] = %d\n",\*(ap5+1)); |
|  | printf("TablaC[2,1] = %d\n",\*(ap5+3)); |
|  | printf("TablaC[2,2] = %d\n",\*(ap5+4)); |
|  |  |
|  | getch(); |
|  | } |

**Programa matriz por escalar**

|  |
| --- |
| #include<stdio.h> |
|  | #include<conio.h> |
|  |  |
|  |  |
|  |  |
|  | int Matriz[3][3],Escalar,a,b,r[3][3],\*ap1,\*ap2,\*ap3,\*ap4,\*ap5; |
|  |  |
|  | main(){ |
|  | ap4 = &Escalar; |
|  |  |
|  | for(a=1;a<3;a++){ |
|  | ap1 = &a; |
|  | for(b=1;b<3;b++){ |
|  | ap2 = &b; |
|  | printf("Ingrese elemento Matriz[%d,%d]: ",\*ap1,\*ap2); |
|  | scanf("%d",&Matriz[\*ap1][\*ap2]); |
|  | } |
|  | } |
|  |  |
|  | printf("\nIntroduzca valor escalar: "); |
|  | scanf("%d",&(\*ap4)); |
|  |  |
|  | printf("\n"); |
|  | for(a=1;a<3;a++){ |
|  | ap1 = &a; |
|  | r[\*ap1][1]=Matriz[\*ap1][1]\*(\*ap4); |
|  | r[\*ap1][2]=Matriz[\*ap1][2]\*(\*ap4); |
|  | } |
|  |  |
|  | ap5 = &r[1][1]; |
|  | printf("r[1,1] = %d\n",\*(ap5)); |
|  | printf("r[1,2] = %d\n",\*(ap5+1)); |
|  | printf("r[2,1] = %d\n",\*(ap5+3)); |
|  | printf("r[2,2] = %d\n",\*(ap5+4)); |
|  |  |
|  |  |
|  | getch(); |
|  | } |

**Apuntadores**

|  |
| --- |
| #include<stdio.h> |
|  | #include<conio.h> |
|  |  |
|  |  |
|  |  |
|  | const char \*mes[14] = {" ","Enero","Febrero","Marzo","Abril","Mayo","Junio","Julio","Agosto","Septiembre","Octubre","Noviembre","Diciembre"}; |
|  | int cont, m[14],\*ap1,\*ap4; |
|  | float r,s=0,\*ap2,\*ap3; |
|  |  |
|  | main(){ |
|  | for(cont=1;cont<13;cont++){ |
|  | ap1 = &cont; |
|  | printf("Gastos del mes de %s: $",mes[\*ap1]); |
|  | scanf("%d",&m[\*ap1]); |
|  | s=s+m[\*ap1]; |
|  | } |
|  | ap2 = &s; |
|  | ap3 = &r; |
|  | ap4 = &m[0]; |
|  | \*ap3=\*ap2/12; |
|  | printf("\nGastos del mes de %s = $%d",mes[6],\*(ap4+6)); |
|  | printf("\nGastos del mes de %s = $%d",mes[12],\*(ap4+12)); |
|  | printf("\nPromedio Anual = $%f",\*ap3); |
|  |  |
|  | getch(); |
|  | } |