

```
WITH Ada.Text_Io, Ada.Integer_Text_Io, ada.Float_Text_IO;
USE Ada.Text_Io, Ada.Integer_Text_Io, ada.Float_Text_IO;
```

```
PROCEDURE Prueba_Media_Matriz IS
```

```
    TYPE T_Matriz IS ARRAY (1 ..5, 1..3) OF Integer;
```

```
    FUNCTION Media_Matriz (M:T_Matriz) RETURN FLOAT IS
```

```
        -- Pre:
```

```
        -- Post: Devuelve la media de la matriz.
```

```
        Media: Float:=0.0; Suma:Integer:=0;
```

```
    BEGIN
```

```
        FOR I IN 1..5 LOOP
```

```
            FOR K IN 1..3 LOOP
```

```
                Suma:=M(I,K)+Suma;
```

```
            END LOOP;
```

```
        END LOOP;
```

```
        Media:= Float(Suma)/15.0;
```

```
        RETURN Media;
```

```
    END Media_Matriz;
```

```
    PROCEDURE Escribir_Matriz (M:T_Matriz) IS
```

```
        BEGIN
```

```
            FOR J IN 1..5 LOOP
```

```
                FOR H IN 1..3 LOOP
```

```
                    put( M(J,H),4);
```

```
                END LOOP;
```

```
            New_Line;
```

```
        END LOOP;
```

```
    END Escribir_Matriz;
```

```
    M : T_Matriz; F:Float;
```

```
BEGIN
```

```
    M:= ((1,1,1),(1,1,1),(1,1,1),(1,1,1),(1,1,1));
```

```
    Put_Line("CASO 1: Matriz A");
```

```
    Escribir_Matriz(M); New_Line;
```

```
    F:= Media_Matriz(M);
```

```
    Put("La media es: ");
```

```
    Put(F,1,2,0);
```

```
    New_Line;
```

```
    New_Line;
```

```
    M:= ((1,4,4),(6,8,1),(0,7,1),(42,2,1),(1,6,3));
```

```
    Put_Line("CASO 2: Matriz B");
```

```
    Escribir_Matriz(M); New_Line;
```

```
    F:= Media_Matriz(M);
```

```
    Put("La media es: ");
```

```
    Put(F,1,2,0);
```

```
    New_Line;
```

```
    New_Line;
```

```
    M:= ((56,56,14),(1,54,1),(45,87,1),(9,5,1),(2,11,1));
```

```
    Put_Line("CASO 3: Matriz C");
```

```
    Escribir_Matriz(M); New_Line;
```

```
    F:= Media_Matriz(M);
```

```
    Put("La media es: ");
```

```
    Put(F,1,2,0);
```

```
    New_Line;
```

```
    New_Line;
```

```
Put_Line("Fin de las pruebas");  
END Prueba_Media_Matriz;
```