

Programación II

Universidad Mesoamericana, Sede Quetzaltenango
Ingeniería en Sistemas, Informática y Ciencias de la Com-
putación

Parcial 2 - Ejercicio 1

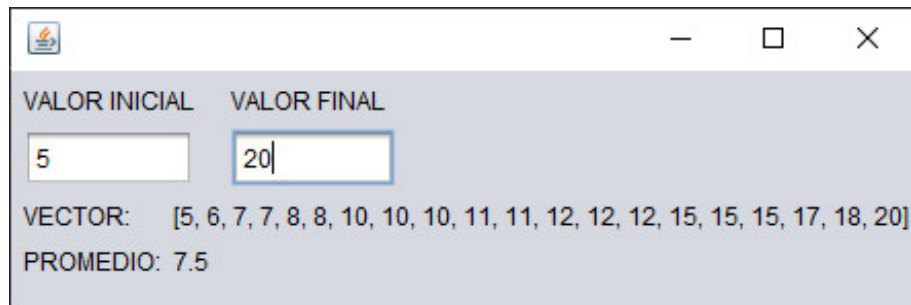


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1 Vector Ordenado y Promediado

Llenar un vector de 20 elementos de tipo entero de forma aleatoria. Luego ordenarlo de forma ascendente y mostrar el promedio

Runtime



A screenshot of a Java application window. It has a title bar with a logo, a minus button, a maximize button, and a close button. The window contains two input fields labeled 'VALOR INICIAL' and 'VALOR FINAL'. The 'VALOR INICIAL' field contains the number '5' and the 'VALOR FINAL' field contains the number '20'. Below these fields, the text 'VECTOR:' is followed by the array '[5, 6, 7, 7, 8, 8, 10, 10, 10, 11, 11, 12, 12, 12, 15, 15, 15, 17, 18, 20]'. Below that, the text 'PROMEDIO:' is followed by the value '7.5'.

Codigo Implementando

```
public void order(int[] v){
    int buffer;
    for(int i=0; i<20; i++){
        for(int j=0; j<20; j++){
            if(v[i] < v[j]){
                buffer=v[i];
                v[i]=v[j];
                v[j]=buffer;
            }
        }
    }
}

public void GlobalKeyRelease(KeyEvent e){
    int init=Integer.parseInt(jTextField1.getText()), fin=Integer.parseInt(jTextField2.getText());
    if(init>=fin) e.consume();
    if(init<0) init *= -1;
    if(fin<0) fin *= -1;
    Random r = new Random();
    for(int i=0; i<20; i++) v[i] = init + r.nextInt(fin - init + 1);
    order(v);
    jLabel6.setText(Arrays.toString(v));
    jLabel10.setText(Double.toString((v[19] - v[0])/2.0));
}
```