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Ejercicio 3

```
int exercise3 (vector<int> & v){
    int n=v.size(), i=2, sum=0;
    while (n>0 && i<n){
        int j;
        j=1;
        while (v[j] != v[i]){
            sum=sum+v[j];
            j=j/2;
        }
        i=i-2;
    }
    return sum;
}
```

Ep. 3

Hay mejor y peor caso?

iter while ext	iter while inter	No i
1	1	2
2	2	4
3	3	6
⋮	⋮	8
⋮	⋮	⋮
k	k	2k

$$2k = n$$

$$k = n/2$$

$$\sum_{i=1}^k i = \sum_{i=1}^{n/2} i = (1 + n/2) \cdot \frac{n/2}{2} =$$

Serie aritmética

$$= \frac{\frac{n^2}{2} + n}{2} \in \Theta(n^2)$$