PROGRAM – WRITE A PROGRAM TO IMPLEMENT A GENERIC FUNCTION TO PERFORM BINARY SEARCH.

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//BINARY SEARCH USING TEMPLATE FUNCTION

```cpp
#include <iostream>
#include<conio.h>
using namespace std;
template <class T>
void binarysearch(T a[], int x, int n) {
        int l=0, r=n-1;
    while (l <= r)
        {
      int m = l + (r - l) / 2;
      if (a[m] == x)
      {
        cout<<"SEARCHED NUMBER IS AT LOCATION : "<<m+1;
        getch();
        exit(0);
                }
      else
        r = m - 1;
    }
    cout<<"ELEMENT NOT FOUND";
}
int main()
{
    int a[5] = {10, 20, 30, 40, 50};
        int n = sizeof(a) / sizeof(a[0]);
    binarysearch(a, 20, n-1);
        return 0;  }
```


C:\Users\VERMA\Desktop\T2.exe
SEARCHED NUMBER IS AT LOCATION : 2