

**//10:program to perform Brute force string handling**

```
#include<stdio.h>
```

```
#include<stdlib.h>
```

```
#include<time.h>
```

```
#include<string.h>
```

```
int match(char p[],char t[])
```

```
{
```

```
    int i,j,m,n;
```

```
    m=strlen(p);
```

```
    n=strlen(t);
```

```
    for(i=0;i<n-m;i++)
```

```
    {
```

```
        j=0;
```

```
        while(j<m && p[j]==t[i+j])
```

```
        {
```

```
            j++;
```

```
        }
```

```
        if(j==m)
```

```
            return i;
```

```
    }
```

```
    return -1;
```

```
}
```

```
void main()
```

```
{
```

```
    clock_t start,end;
```

```
    double tot;
```

```
    int e;
```

```
    char p[50],t[50];
```

```
    printf("ENTER THE MAIN STRING\n");
```

```

gets(t);

printf("ENTER THE SUBSTRING\n");

gets(p);

start=clock();

e=match(p,t);

end=clock();

tot=(double)(end-start)/CLOCKS_PER_SEC;

if(e!=-1)

    printf("ELEMENT NOT FOUND\n");

else

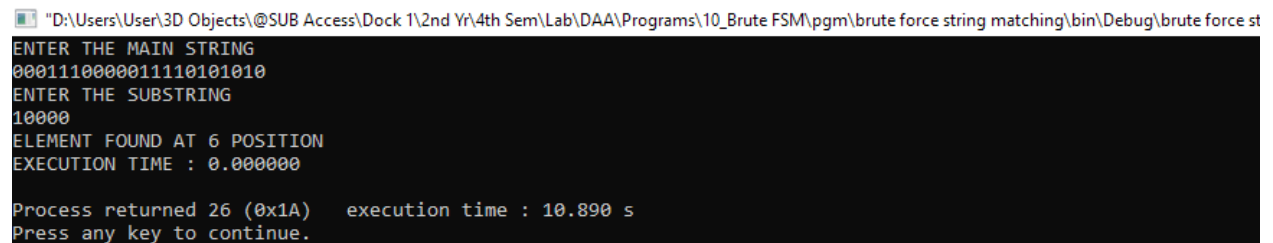
    printf("ELEMENT FOUND AT %d POSITION\n",e+1);

printf("EXECUTION TIME : %f\n",t);

}

```

### Output:



```

"D:\Users\User\3D Objects\@SUB Access\Dock 1\2nd Yr\4th Sem\Lab\DAA\Programs\10_Brute FSM\pgm\brute force string matching\bin\Debug\brute force st
ENTER THE MAIN STRING
0001110000011110101010
ENTER THE SUBSTRING
10000
ELEMENT FOUND AT 6 POSITION
EXECUTION TIME : 0.000000

Process returned 26 (0x1A)   execution time : 10.890 s
Press any key to continue.

```

"D:\Users\User\3D Objects\@SUB Access\Dock 1\2nd Yr\4th Sem\Lab\DAA\Programs\10\_Brute FSM\pgm\brute force string matching\bin\Debug\brute force string m

ENTER THE MAIN STRING

1241512672632

ENTER THE SUBSTRING

416

ELEMENT NOT FOUND

EXECUTION TIME : 0.000000

Process returned 26 (0x1A) execution time : 11.610 s

Press any key to continue.