

```
type regexp =  
  | Zero  
  | One  
  | Symb of char  
  | Sum of regexp * regexp  
  | Product of regexp * regexp  
  | Star of regexp
```

```
let rec contains_epsilon (r:regexp) :bool = match r with  
  | One -> true  
  | Zero -> false  
  | Symb(_) -> false  
  | Sum(r1,r2) -> contains_epsilon(r1) || contains_epsilon(r2)  
  | Product(r1,r2) -> contains_epsilon(r1) && contains_epsilon(r2)
```