

hint: look at previous hw2 (on DNA)
 solution available

simple matcher for hw2:

```

  should match Frag []
  let match_empty frag accept = accept frag

```

Optional : "kinda like modifier for exisiting types"

```

Optional int
  either an int or None
  returning None is like returning null pointer

```

look up syntax issues for handling None

```

type acceptor = fragment->fragment option
  acceptor is a function that takes a fragment and returns a fragment option
  ie fragment or none

```

```

let rec match_junk k frag accept =
  match accept frag with
  | None ->
    (if k = 0
     then None
     else match frag with
          | [] -> None
          | _::tail -> match_junk (k-1) tail accept) (*ie try to accept some shorter piece of junk*)
  | ok->ok

```

```

int -> symbol list -> (symbol list -> symbol list optional) -> symbol list optional

```

k is the max size of junk