```
char* read_matrix(char* file_name) {
  FILE* f = fopen(file_name, "r");
  char w = fgetc(f);
  char h = fgetc(f);
  char s = w * h;
  char* out = (char*)malloc(s);
  char* aux = out;
  for (char c0 = 0; c0 < w; c0++) {
    for (char c1 = 0; c1 < h; c1++) {
      if ((*aux++ = fgetc(f)) == EOF) {
        goto L0;
      }
    }
  }
L0:
  fclose(f);
  return out;
}
```

$$w = 0\ 0\ 0\ 1\ 0\ 0\ 0\ 0 = 16_{10}$$

$$h = 0\ 0\ 0\ 1\ 0\ 0\ 0\ 0 = 16_{10}$$

$$h * w = 1\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0 = 256_{10}$$

$$s = 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0 = 0_{10}$$