



Algorithm Get**Input:** *key_in*: key of a key-value pair to find**Output:** *value_out*: a value of the found key-value pair

```
HKEY hKey;
if (RegOpenKeyEx(RootKey, DBName, 0, KEY_QUERY_VALUE, &hKey)
    != ERROR_SUCCESS)
{
    return FAIL_TO_GET;
}
if (RegQueryValueEx(hKey, key_in, NULL, NULL, value_out, NULL)
    != ERROR_SUCCESS)
{
    RegCloseKey(hKey);
    return FAIL_TO_GET;
}
RegCloseKey(hKey);
return value_out;
```

Algorithm Put**Input:** (*key_in*, *value_in*): a key-value pair to store

```
HKEY hKey;
if (RegCreateKey(RootKey, DBName, &hKey) != ERROR_SUCCESS)
{
    return FAIL_TO_PUT;
}
if (RegSetValueEx(hKey, key_in, 0, REG_SZ, (LPBYTE)value_in, sizeof(value_in))
    != ERROR_SUCCESS)
{
    RegCloseKey(hKey);
    return FAIL_TO_PUT;
}
RegCloseKey(hKey);
```

Algorithm Delete**Input:** *key_in*: key of a key-value pair to delete

```
HKEY hKey;
if (RegOpenKeyEx(RootKey, DBName, 0, KEY_ALL_ACCESS, &hKey)
    != ERROR_SUCCESS)
{
    return FAIL_TO_DELETE;
}
if (RegDeleteKeyValue(RootKey, DBName, key_in) != ERROR_SUCCESS)
{
    RegCloseKey(hKey);
    return FAIL_TO_DELETE;
}
RegCloseKey(hKey);
```



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