

Nếu chưa chạy thì viết thêm hàm này

```
public boolean isStoragePermissionGranted1() {
    if (Build.VERSION.SDK_INT >= 23) {
        if
        (checkSelfPermission(Manifest.permission.READ_CONTACTS)
            == PackageManager.PERMISSION_GRANTED
            &&
            checkSelfPermission(Manifest.permission.WRITE_CONTACTS)
            == PackageManager.PERMISSION_GRANTED) {
            Log.v("TAG", "Permission is granted");
            return true;
        } else {
            Log.v("TAG", "Permission is revoked");
            ActivityCompat.requestPermissions(MainActivity.this,
                new
                String[]{android.Manifest.permission.READ_CONTACTS,
                    Manifest.permission.WRITE_CONTACTS},
                1);
            return false;
        }
    } else { //permission is automatically granted on sdk<23
upon installation
        Log.v("TAG", "Permission is granted");
        return true;
    }
}
```

Sau đó gọi như sau:

```

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    listView = findViewById(R.id.lv);

    if(isStoragePermissionGranted1())
    {
        readContact();
    }
}

public boolean isStoragePermissionGranted1() {
    if (Build.VERSION.SDK_INT >= 23) {
        if (checkSelfPermission(Manifest.permission.READ_CONTACTS)
            == PackageManager.PERMISSION_GRANTED
            && checkSelfPermission(Manifest.permission.WRITE_CONTACTS)
            == PackageManager.PERMISSION_GRANTED) {
            Log.v( tag: "TAG", msg: "Permission is granted");
            return true;
        } else {
            Log.v( tag: "TAG", msg: "Permission is revoked");
            ActivityCompat.requestPermissions( activity: MainActivity.this,
                new String[]{android.Manifest.permission.READ_CONTACTS,
                    Manifest.permission.WRITE_CONTACTS}, requestCode: 1);
            return false;
        }
    } else { //permission is automatically granted on sdk<23 upon installation
        Log.v( tag: "TAG", msg: "Permission is granted");
        return true;
    }
}

```