2	A Index 0	B Offset(Dec) 0 4	C Offset(Hex)	roid* reserved0;
3 4 5 6	1 2 3 4		4 8 C 10	void* reserved1 void* reserved2 void* reserved3 jint (*GetVersion)(JNIEnv *)
7 8 9	5 6 7	20 24 28	14 18 1C	jclass (*DefineClass)(JNIEnv*, const char*, jobject, const jbyte*, jsize) jclass (*FindClass)(JNIEnv*, const char*) jmethodID (*FromReflectedMethod)(JNIEnv*, jobject)
10 11 12 13	8 9 10 11	36 40	20 24 28 2C	jfieldID (*FromReflectedField)(JNIEnv*, jobject); jobject (*ToReflectedMethod)(JNIEnv*, jclass, jmethodID, jboolean); jclass (*GetSuperclass)(JNIEnv*, jclass); jboolean (*IsAssignableFrom)(JNIEnv*, jclass, jclass);
14 15 16	12 13 14	48 52 56	30 34 38	jobject (*ToReflectedField)(JNIEnv*, jclass, jfieldID, jboolean); jint (*Throw)(JNIEnv*, jthrowable); jint (*ThrowNew)(JNIEnv *, jclass, const char *);
17 18 19 20	15 16 17 18	64 68	3C 40 44 48	jthrowable (*ExceptionOccurred)(JNIEnv*); void (*ExceptionDescribe)(JNIEnv*); void (*ExceptionClear)(JNIEnv*);
20212223	18 19 20 21	76 80	4C 50 54	void (*FatalError)(JNIEnv*, const char*); jint (*PushLocalFrame)(JNIEnv*, jint); jobject (*PopLocalFrame)(JNIEnv*, jobject); jobject (*NewGlobalRef)(JNIEnv*, jobject);
242526	22 23 24	88 92 96	58 5C 60	void (*DeleteGlobalRef)(JNIEnv*, jobject); void (*DeleteLocalRef)(JNIEnv*, jobject); jboolean (*IsSameObject)(JNIEnv*, jobject, jobject);
27 28 29 30	25 26 27 28	104 108	64 68 6C 70	jobject (*NewLocalRef)(JNIEnv*, jobject); jint (*EnsureLocalCapacity)(JNIEnv*, jint); jobject (*AllocObject)(JNIEnv*, jclass); jobject (*NewObject)(JNIEnv*, jclass, jmethodID,);
31 32 33	29 30 31	116 120	74 78 7C	jobject (*NewObject)(JNIEnv*, jclass, jmethodID, va_list); jobject (*NewObjectA)(JNIEnv*, jclass, jmethodID, jvalue*); jobject (*NewObjectA)(JNIEnv*, jclass, jmethodID, jvalue*); jclass (*GetObjectClass)(JNIEnv*, jobject);
34 35 36	32 33 34	132 136	80 84 88	jboolean (*IsInstanceOf)(JNIEnv*, jobject, jclass); jmethodID (*GetMethodID)(JNIEnv*, jclass, const char*, const char*); jobject (*CallObjectMethod)(JNIEnv*, jobject, jmethodID,);
37 38 39 40	35 36 37 38	144 148	8C 90 94 98	jobject (*CallObjectMethodV)(JNIEnv*, jobject, jmethodID, va_list); jobject (*CallObjectMethodA)(JNIEnv*, jobject, jmethodID, jvalue*); jboolean (*CallBooleanMethod)(JNIEnv*, jobject, jmethodID,); jboolean (*CallBooleanMethodV)(JNIEnv*, jobject, jmethodID, va_list);
41 42 43	39 40 41	160 164	9C A0 A4	jboolean (*CallBooleanMethodA)(JNIEnv*, jobject, jmethodID, jvalue*); jbyte (*CallByteMethod)(JNIEnv*, jobject, jmethodID,); jbyte (*CallByteMethodV)(JNIEnv*, jobject, jmethodID, va_list);
44 45 46 47	42 43 44 45	172 176	A8 AC B0 B4	jbyte (*CallByteMethodA)(JNIEnv*, jobject, jmethodID, jvalue*); jchar (*CallCharMethod)(JNIEnv*, jobject, jmethodID,); jchar (*CallCharMethodV)(JNIEnv*, jobject, jmethodID, va_list); jchar (*CallCharMethodA)(JNIEnv*, jobject, jmethodID, jvalue*);
48 49 50	46 47 48	184 188 192	B8 BC C0	jshort (*CallShortMethod)(JNIEnv*, jobject, jmethodID,); jshort (*CallShortMethodV)(JNIEnv*, jobject, jmethodID, va_list); jshort (*CallShortMethodA)(JNIEnv*, jobject, jmethodID, jvalue*);
51525354	49 50 51 52	200 204	C4 C8 CC D0	jint (*CallIntMethod)(JNIEnv*, jobject, jmethodID,); jint (*CallIntMethodV)(JNIEnv*, jobject, jmethodID, va_list); jint (*CallIntMethodA)(JNIEnv*, jobject, jmethodID, jvalue*); jlong (*CallLongMethod)(JNIEnv*, jobject, jmethodID,);
55 56 57	53 54 55	212 216	D4 D8 DC	jlong (*CallLongMethodV)(JNIEnv*, jobject, jmethodID, va_list); jlong (*CallLongMethodA)(JNIEnv*, jobject, jmethodID, jvalue*); jfloat (*CallFloatMethod)(JNIEnv*, jobject, jmethodID,);
58 59 60	56 57 58	228 232	E0 E4 E8 EC	jfloat (*CallFloatMethodV)(JNIEnv*, jobject, jmethodID, va_list); jfloat (*CallFloatMethodA)(JNIEnv*, jobject, jmethodID, jvalue*); jdouble (*CallDoubleMethod)(JNIEnv*, jobject, jmethodID,);
61 62 63 64	59 60 61 62	240 244	F0 F4 F8	jdouble (*CallDoubleMethodV)(JNIEnv*, jobject, jmethodID, va_list); jdouble (*CallDoubleMethodA)(JNIEnv*, jobject, jmethodID, jvalue*); void (*CallVoidMethod)(JNIEnv*, jobject, jmethodID,); void (*CallVoidMethodV)(JNIEnv*, jobject, jmethodID, va_list);
65 66 67	63 64 65	252 256 260	FC 100 104	void (*CallVoidMethodA)(JNIEnv*, jobject, jmethodID, jvalue*); jobject (*CallNonvirtualObjectMethod)(JNIEnv*, jobject, jclass, jmethodID,); jobject (*CallNonvirtualObjectMethodV)(JNIEnv*, jobject, jclass, jmethodID, va_list);
68 69 70 71	66 67 68 69	268 272	108 10C 110 114	jobject (*CallNonvirtualObjectMethodA)(JNIEnv*, jobject, jclass, jmethodID, jvalue*); jboolean (*CallNonvirtualBooleanMethodV)(JNIEnv*, jobject, jclass, jmethodID, va_list); jboolean (*CallNonvirtualBooleanMethodA)(JNIEnv*, jobject, jclass, jmethodID, va_list);
72 73 74	70 71 72	280 284 288	118 11C 120	jbyte (*CallNonvirtualByteMethod)(JNIEnv*, jobject, jclass, jmethodID,); jbyte (*CallNonvirtualByteMethodV)(JNIEnv*, jobject, jclass, jmethodID, va_list); jbyte (*CallNonvirtualByteMethodA)(JNIEnv*, jobject, jclass, jmethodID, jvalue*);
75 76 77 78	73 74 75 76	296 300	124 128 12C 130	jchar (*CallNonvirtualCharMethod)(JNIEnv*, jobject, jclass, jmethodID,); jchar (*CallNonvirtualCharMethodV)(JNIEnv*, jobject, jclass, jmethodID, va_list); jchar (*CallNonvirtualCharMethodA)(JNIEnv*, jobject, jclass, jmethodID, jvalue*);
79 80 81	77 78 79	308 312 316	134 138 13C	jshort (*CallNonvirtualShortMethod)(JNIEnv*, jobject, jclass, jmethodID,); jshort (*CallNonvirtualShortMethodV)(JNIEnv*, jobject, jclass, jmethodID, va_list); jshort (*CallNonvirtualShortMethodA)(JNIEnv*, jobject, jclass, jmethodID, jvalue*); jint (*CallNonvirtualIntMethod)(JNIEnv*, jobject, jclass, jmethodID,);
82 83 84	80 81 82	320 324 328	140 144 148	jint (*CallNonvirtualIntMethodV)(JNIEnv*, jobject, jclass, jmethodID, va_list); jint (*CallNonvirtualIntMethodA)(JNIEnv*, jobject, jclass, jmethodID, jvalue*); jlong (*CallNonvirtualLongMethod)(JNIEnv*, jobject, jclass, jmethodID,);
85 86 87 88	83 84 85 86	336 340	14C 150 154 158	jlong (*CallNonvirtualLongMethodV)(JNIEnv*, jobject, jclass, jmethodID, va_list); jlong (*CallNonvirtualLongMethodA)(JNIEnv*, jobject, jclass, jmethodID, jvalue*); jfloat (*CallNonvirtualFloatMethod)(JNIEnv*, jobject, jclass, jmethodID,); jfloat (*CallNonvirtualFloatMethodV)(JNIEnv*, jobject, jclass, jmethodID, va_list);
89 90 91	87 88 89	348 352 356	15C 160 164	jfloat (*CallNonvirtualFloatMethodA)(JNIEnv*, jobject, jclass, jmethodID, jvalue*); jdouble (*CallNonvirtualDoubleMethod)(JNIEnv*, jobject, jclass, jmethodID,); jdouble (*CallNonvirtualDoubleMethodV)(JNIEnv*, jobject, jclass, jmethodID, va_list);
92 93 94 95	90 91 92 93	364 368	168 16C 170 174	jdouble (*CallNonvirtualDoubleMethodA)(JNIEnv*, jobject, jclass, jmethodID, jvalue*); void (*CallNonvirtualVoidMethod)(JNIEnv*, jobject, jclass, jmethodID, va_list); void (*CallNonvirtualVoidMethodA)(JNIEnv*, jobject, jclass, jmethodID, va_list); void (*CallNonvirtualVoidMethodA)(JNIEnv*, jobject, jclass, jmethodID, jvalue*);
96 97 98	94 95 96	380 384	178 17C 180	jfieldID (*GetFieldID)(JNIEnv*, jclass, const char*, const char*); jobject (*GetObjectField)(JNIEnv*, jobject, jfieldID); jboolean (*GetBooleanField)(JNIEnv*, jobject, jfieldID);
99 100 101 102	97 98 99 100	392 396	184 188 18C 190	jbyte (*GetByteField)(JNIEnv*, jobject, jfieldID); jchar (*GetCharField)(JNIEnv*, jobject, jfieldID); jshort (*GetShortField)(JNIEnv*, jobject, jfieldID); jint (*GetIntField)(JNIEnv*, jobject, jfieldID);
103 104 105 106	101 102 103 104	408 412	194 198 19C 1A0	jlong (*GetLongField)(JNIEnv*, jobject, jfieldID); jfloat (*GetFloatField)(JNIEnv*, jobject, jfieldID); jdouble (*GetDoubleField)(JNIEnv*, jobject, jfieldID);
100 107 108 109	105 106 107	420 424	1A4 1A8 1AC	void (*SetObjectField)(JNIEnv*, jobject, jfieldID, jobject); void (*SetBooleanField)(JNIEnv*, jobject, jfieldID, jboolean); void (*SetByteField)(JNIEnv*, jobject, jfieldID, jbyte); void (*SetCharField)(JNIEnv*, jobject, jfieldID, jchar);
110 111 112 113	108 109 110 111	436 440	1B0 1B4 1B8 1BC	void (*SetShortField)(JNIEnv*, jobject, jfieldID, jshort); void (*SetIntField)(JNIEnv*, jobject, jfieldID, jlong); void (*SetLongField)(JNIEnv*, jobject, jfieldID, jfloat);
114 115 116	112 113 114	448 452	1C0 1C4 1C8	void ("SetDoubleField)(JNIEnv*, jobject, jfieldID, jdouble); jmethodID (*GetStaticMethodID)(JNIEnv*, jclass, const char*, const char*); jobject (*CallStaticObjectMethod)(JNIEnv*, jclass, jmethodID,);
117118119120	115 116 117 118	464 468	1CC 1D0 1D4 1D8	jobject (*CallStaticObjectMethodV)(JNIEnv*, jclass, jmethodID, va_list); jobject (*CallStaticObjectMethodA)(JNIEnv*, jclass, jmethodID, jvalue*); jboolean (*CallStaticBooleanMethod)(JNIEnv*, jclass, jmethodID,); jboolean (*CallStaticBooleanMethodV)(JNIEnv*, jclass, jmethodID, va_list);
121 122 123	119 120 121	476 480	1DC 1E0 1E4	jboolean (*CallStaticBooleanMethodA)(JNIEnv*, jclass, jmethodID, jvalue*); jbyte (*CallStaticByteMethod)(JNIEnv*, jclass, jmethodID,); jbyte (*CallStaticByteMethodV)(JNIEnv*, jclass, jmethodID, va_list);
124 125 126 127	122 123 124 125	492 496	1E8 1EC 1F0 1F4	jbyte (*CallStaticByteMethodA)(JNIEnv*, jclass, jmethodID, jvalue*); jchar (*CallStaticCharMethod)(JNIEnv*, jclass, jmethodID,); jchar (*CallStaticCharMethodV)(JNIEnv*, jclass, jmethodID, va_list); jchar (*CallStaticCharMethodA)(JNIEnv*, jclass, jmethodID, jvalue*);
128 129 130	127 128	508 512	1F8 1FC 200	jshort (*CallStaticShortMethod)(JNIEnv*, jclass, jmethodID,); jshort (*CallStaticShortMethodV)(JNIEnv*, jclass, jmethodID, va_list); jshort (*CallStaticShortMethodA)(JNIEnv*, jclass, jmethodID, jvalue*);
131132133134	129 130 131 132	520 524	204 208 20C 210	jint (*CallStaticIntMethod)(JNIEnv*, jclass, jmethodID,); jint (*CallStaticIntMethodV)(JNIEnv*, jclass, jmethodID, va_list); jint (*CallStaticIntMethodA)(JNIEnv*, jclass, jmethodID, jvalue*); jlong (*CallStaticLongMethod)(JNIEnv*, jclass, jmethodID,);
135 136 137	134 135	536 540	214 218 21C	jlong (*CallStaticLongMethodV)(JNIEnv*, jclass, jmethodID, va_list); jlong (*CallStaticLongMethodA)(JNIEnv*, jclass, jmethodID, jvalue*); jfloat (*CallStaticFloatMethod)(JNIEnv*, jclass, jmethodID,);
138 139 140 141	136 137 138 139	548 552	220 224 228 22C	jfloat (*CallStaticFloatMethodV)(JNIEnv*, jclass, jmethodID, va_list); jfloat (*CallStaticFloatMethodA)(JNIEnv*, jclass, jmethodID, jvalue*); jdouble (*CallStaticDoubleMethod)(JNIEnv*, jclass, jmethodID,); jdouble (*CallStaticDoubleMethodV)(JNIEnv*, jclass, jmethodID, va_list);
142 143 144	140 141 142	560 564 568	230 234 238	jdouble (*CallStaticDoubleMethodA)(JNIEnv*, jclass, jmethodID, jvalue*); void (*CallStaticVoidMethod)(JNIEnv*, jclass, jmethodID,); void (*CallStaticVoidMethodV)(JNIEnv*, jclass, jmethodID, va_list);
145146147148	143 144 145 146	576 580	23C 240 244 248	void (*CallStaticVoidMethodA)(JNIEnv*, jclass, jmethodID, jvalue*); jfieldID (*GetStaticFieldID)(JNIEnv*, jclass, const char*, const char*); jobject (*GetStaticObjectField)(JNIEnv*, jclass, jfieldID); jboolean (*GetStaticBooleanField)(JNIEnv*, jclass, jfieldID);
149 150 151	147 148 149	588 592 596	24C 250 254	jbyte (*GetStaticByteField)(JNIEnv*, jclass, jfieldID); jchar (*GetStaticCharField)(JNIEnv*, jclass, jfieldID); jshort (*GetStaticShortField)(JNIEnv*, jclass, jfieldID);
152 153 154 155	150 151 152 153	604 608	258 25C 260 264	jint (*GetStaticIntField)(JNIEnv*, jclass, jfieldID); jlong (*GetStaticLongField)(JNIEnv*, jclass, jfieldID); jfloat (*GetStaticFloatField)(JNIEnv*, jclass, jfieldID); jdouble (*GetStaticDoubleField)(JNIEnv*, jclass, jfieldID);
156 157 158	154 155 15 6	616 620 624	268 26C 270	void (*SetStaticObjectField)(JNIEnv*, jclass, jfieldID, jobject); void (*SetStaticBooleanField)(JNIEnv*, jclass, jfieldID, jboolean); void (*SetStaticByteField)(JNIEnv*, jclass, jfieldID, jbyte);
159 160 161 162	157 158 159 160	632 636	274 278 27C 280	void (*SetStaticCharField)(JNIEnv*, jclass, jfieldID, jchar); void (*SetStaticShortField)(JNIEnv*, jclass, jfieldID, jshort); void (*SetStaticIntField)(JNIEnv*, jclass, jfieldID, jlong); void (*SetStaticLongField)(JNIEnv*, jclass, jfieldID, jlong);
163 164 165	161 162 163	644 648 652	284 288 28C	void (*SetStaticFloatField)(JNIEnv*, jclass, jfieldID, jfloat); void (*SetStaticDoubleField)(JNIEnv*, jclass, jfieldID, jdouble); jstring (*NewString)(JNIEnv*, const jchar*, jsize);
166167168169	164 165 166 167	660 664	290 294 298 29C	jsize (*GetStringLength)(JNIEnv*, jstring); const jchar* (*GetStringChars)(JNIEnv*, jstring, jboolean*); void (*ReleaseStringChars)(JNIEnv*, jstring, const jchar*); jstring (*NewStringUTF)(JNIEnv*, const char*);
170 171 172	168 169 170	672 676 680	2A0 2A4 2A8	jsize (*GetStringUTFLength)(JNIEnv*, jstring); const char* (*GetStringUTFChars)(JNIEnv*, jstring, jboolean*); void (*ReleaseStringUTFChars)(JNIEnv*, jstring, const char*);
173 174 175 176		688 692	2AC 2B0 2B4 2B8	jsize (*GetArrayLength)(JNIEnv*, jarray); jobjectArray (*NewObjectArray)(JNIEnv*, jsize, jclass, jobject); jobject (*GetObjectArrayElement)(JNIEnv*, jobjectArray, jsize); void (*SetObjectArrayElement)(JNIEnv*, jobjectArray, jsize, jobject);
177 178 179	175 176 177	700 704 708	2BC 2C0 2C4	jbooleanArray (*NewBooleanArray)(JNIEnv*, jsize); jbyteArray (*NewByteArray)(JNIEnv*, jsize); jcharArray (*NewCharArray)(JNIEnv*, jsize);
180 181 182 183	178 179 180 181	716 720	2C8 2CC 2D0 2D4	jshortArray (*NewShortArray)(JNIEnv*, jsize); jintArray (*NewIntArray)(JNIEnv*, jsize); jlongArray (*NewLongArray)(JNIEnv*, jsize); jfloatArray (*NewFloatArray)(JNIEnv*, jsize);
184 185 186	182 183 184	728 732 736	2D8 2DC 2E0	jdoubleArray (*NewDoubleArray)(JNIEnv*, jsize); jboolean* (*GetBooleanArrayElements)(JNIEnv*, jbooleanArray, jboolean*); jbyte* (*GetByteArrayElements)(JNIEnv*, jbyteArray, jboolean*);
187 188 189	185 186 187	740 744 748	2E4 2E8 2EC	jchar* (*GetCharArrayElements)(JNIEnv*, jcharArray, jboolean*); jshort* (*GetShortArrayElements)(JNIEnv*, jshortArray, jboolean*); jint* (*GetIntArrayElements)(JNIEnv*, jintArray, jboolean*);
190 191 192 193	188 189 190 191	756 760	2F0 2F4 2F8 2FC	jlong* (*GetLongArrayElements)(JNIEnv*, jlongArray, jboolean*); jfloat* (*GetFloatArrayElements)(JNIEnv*, jfloatArray, jboolean*); jdouble* (*GetDoubleArrayElements)(JNIEnv*, jdoubleArray, jboolean*); void (*ReleaseBooleanArrayElements)(JNIEnv*, jbooleanArray, jboolean*, jint);
194 195 196	192 193 194	768 772 776	300 304 308	void (*ReleaseByteArrayElements)(JNIEnv*, jbyteArray, jbyte*, jint); void (*ReleaseCharArrayElements)(JNIEnv*, jcharArray, jchar*, jint); void (*ReleaseShortArrayElements)(JNIEnv*, jshortArray, jshort*, jint);
197 198 199 200	195 196 197 198	784 788	30C 310 314 318	void (*ReleaseIntArrayElements)(JNIEnv*, jintArray, jint*, jint); void (*ReleaseLongArrayElements)(JNIEnv*, jlongArray, jlong*, jint); void (*ReleaseFloatArrayElements)(JNIEnv*, jfloatArray, jfloat*, jint); void (*ReleaseDoubleArrayElements)(JNIEnv*, jdoubleArray, jdouble*, jint);
201 202 203	199 200 201	796 800 804	31C 320 324	void (*GetBooleanArrayRegion)(JNIEnv*, jbooleanArray, jsize, jsize, jboolean*); void (*GetByteArrayRegion)(JNIEnv*, jbyteArray, jsize, jsize, jbyte*); void (*GetCharArrayRegion)(JNIEnv*, jcharArray, jsize, jsize, jchar*);
204 205 206 207	202 203 204 205	812 816	328 32C 330 334	void (*GetShortArrayRegion)(JNIEnv*, jshortArray, jsize, jsize, jshort*); void (*GetIntArrayRegion)(JNIEnv*, jintArray, jsize, jsize, jint*); void (*GetLongArrayRegion)(JNIEnv*, jlongArray, jsize, jsize, jlong*); void (*GetFloatArrayRegion)(JNIEnv*, jfloatArray, jsize, jsize, jfloat*);
208 209 210	206 207 208	824 828 832	338 33C 340	void (*GetDoubleArrayRegion)(JNIEnv*, jdoubleArray, jsize, jsize, jdouble*); void (*SetBooleanArrayRegion)(JNIEnv*, jbooleanArray, jsize, jsize, const jbotean*); void (*SetByteArrayRegion)(JNIEnv*, jbyteArray, jsize, jsize, const jbyte*);
211212213214	209 210 211 212	840 844	344 348 34C 350	void (*SetCharArrayRegion)(JNIEnv*, jcharArray, jsize, jsize, const jchar*); void (*SetShortArrayRegion)(JNIEnv*, jshortArray, jsize, jsize, const jshort*); void (*SetIntArrayRegion)(JNIEnv*, jintArray, jsize, jsize, const jint*);
215216217	213 214 215	852 856 860	354 358 35C	void (*SetLongArrayRegion)(JNIEnv*, jlongArray, jsize, jsize, const jlong*); void (*SetFloatArrayRegion)(JNIEnv*, jfloatArray, jsize, jsize, const jfloat*); void (*SetDoubleArrayRegion)(JNIEnv*, jdoubleArray, jsize, jsize, const jdouble*); jint (*RegisterNatives)(JNIEnv*, jclass, const JNINativeMethod*, jint);
218 219 220 221	216 217 218 219	864 868 872	360 364 368	jint (*UnregisterNatives)(JNIEnv*, jclass); jint (*MonitorEnter)(JNIEnv*, jobject); jint (*MonitorExit)(JNIEnv*, jobject);
222223224	220 221 222	880 884 888	36C 370 374 378	jint (*GetJavaVM)(JNIEnv*, JavaVM**); void (*GetStringRegion)(JNIEnv*, jstring, jsize, jsize, jchar*); void (*GetStringUTFRegion)(JNIEnv*, jstring, jsize, jsize, char*); void* (*GetPrimitiveArrayCritical)(JNIEnv*, jarray, jboolean*);
225 226 227 228	223	892 896 900	37C 380 384 388	void (*ReleasePrimitiveArrayCritical)(JNIEnv*, jarray, void*, jint); const jchar* (*GetStringCritical)(JNIEnv*, jstring, jboolean*); void (*ReleaseStringCritical)(JNIEnv*, jstring, const jchar*);
229230231	227 228 229	908 912 916	38C 390 394	jweak (*NewWeakGlobalRef)(JNIEnv*, jobject); void (*DeleteWeakGlobalRef)(JNIEnv*, jweak); jboolean (*ExceptionCheck)(JNIEnv*); jobject (*NewDirectByteBuffer)(JNIEnv*, void*, jlong);
232 233 234	230 231 232	920 924	398 39C 3A0	void* (*GetDirectBufferAddress)(JNIEnv*, jobject); jlong (*GetDirectBufferCapacity)(JNIEnv*, jobject); jobjectRefType (*GetObjectRefType)(JNIEnv*, jobject);